

<b>Site Number:</b> SB001			
<b>Recorded By:</b> Kelly Chiene			
<b>Job Number:</b> 10-107353			
<b>Date:</b> 5/3/11			
<b>Time:</b> 10:17 a.m.			
<b>Location:</b> On-site, northwestern portion			
<b>Source of Peak Noise:</b> Ttraffic along Marina Drive and 1 <sup>st</sup> Street; plane			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
50.1	36.9	63.9	87.9

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	11/14/2007	
	Microphone	Brüel & Kjær	4189	2543364	11/15/2007	
	Preamp	Brüel & Kjær	ZC 0032	4265	7/18/2006	
	Calibrator	Brüel & Kjær	4231	2545667	7/31/2006	
Weather Data						
Est.	<b>Duration:</b> 10 minutes			<b>Sky:</b> ☀		
	<b>Note:</b> dBA Offset =-0.2			<b>Sensor Height (ft):</b> 5 ft		
	<b>Wind Ave Speed (mph / m/s)</b>		<b>Temperature (degrees Fahrenheit)</b>		<b>Barometer Pressure (hPa)</b>	
	2		85		1015.6	

### Photo of Measurement Location



## 2250

Instrument:		2250
Application:		BZ7225 Version 2.0.2
Start Time:		05/03/2011 10:16:56
End Time:		05/03/2011 10:26:56
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		140.17

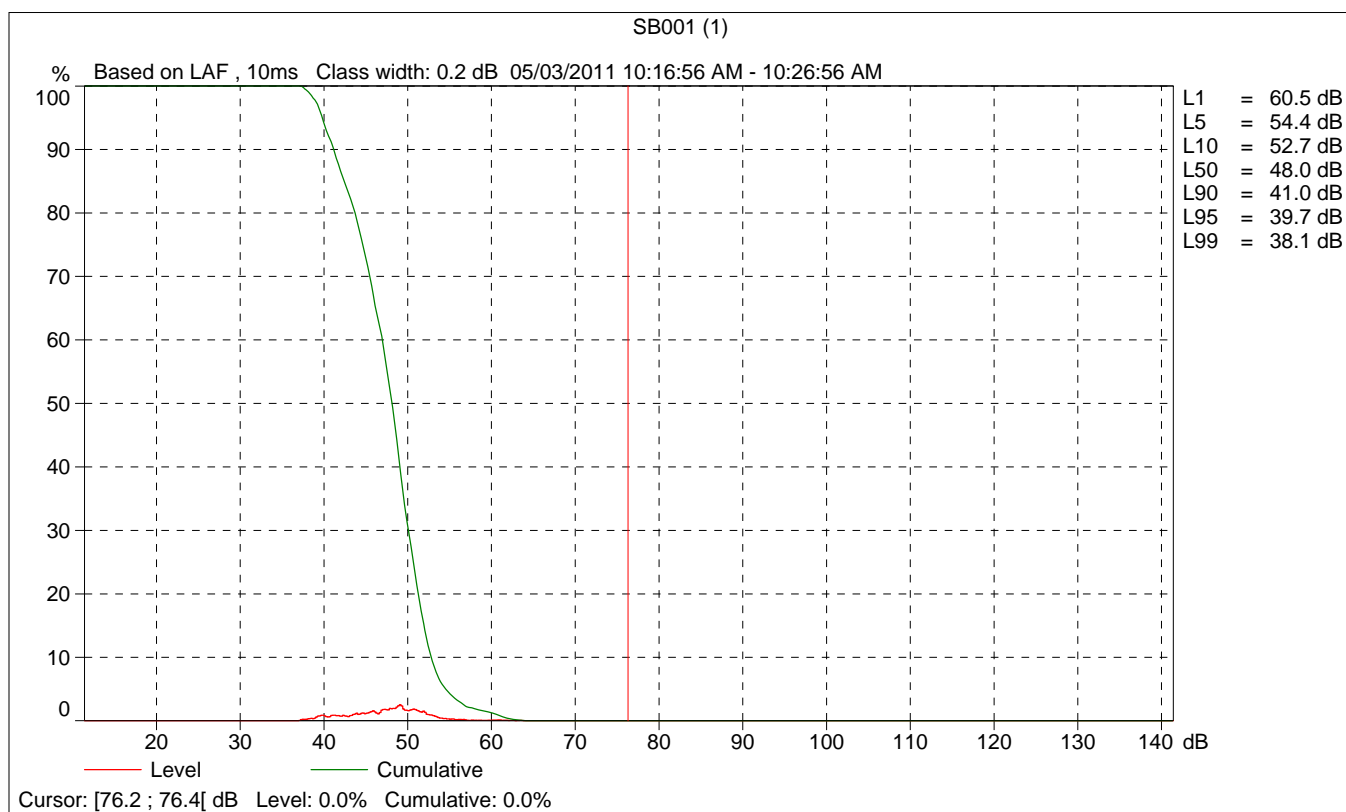
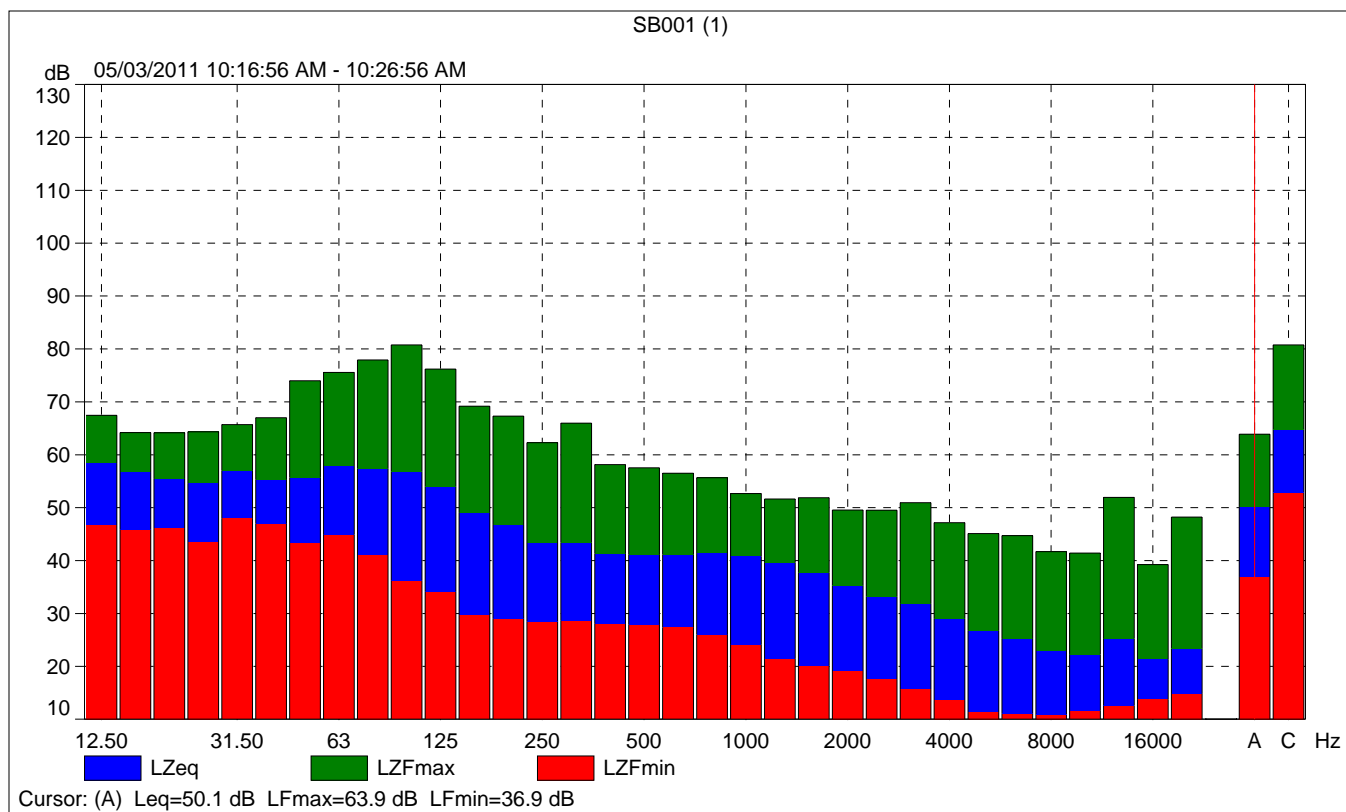
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

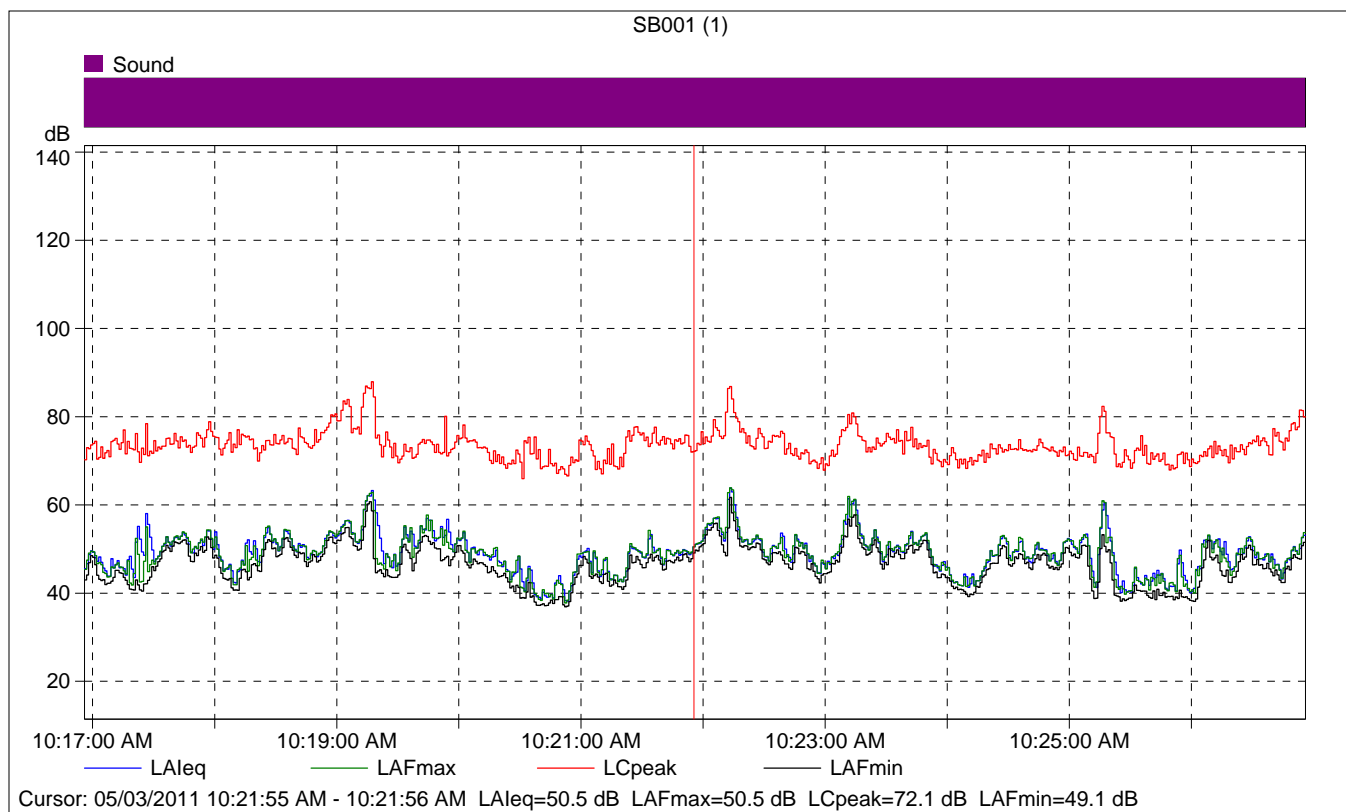
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Diffuse-field

Calibration Time:		05/03/2011 09:04:54
Calibration Type:		External reference
Sensitivity:		54.69 mV/Pa

## SB001 (1)

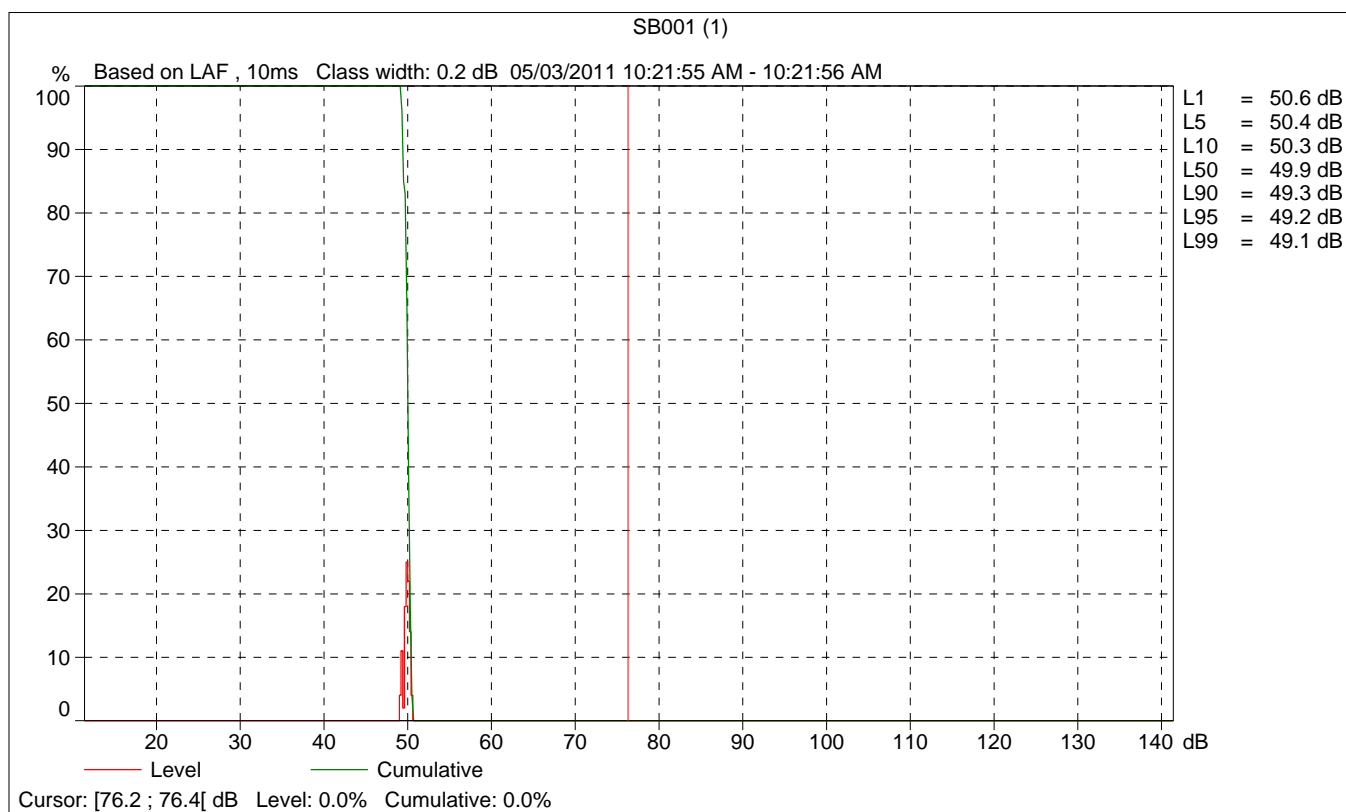
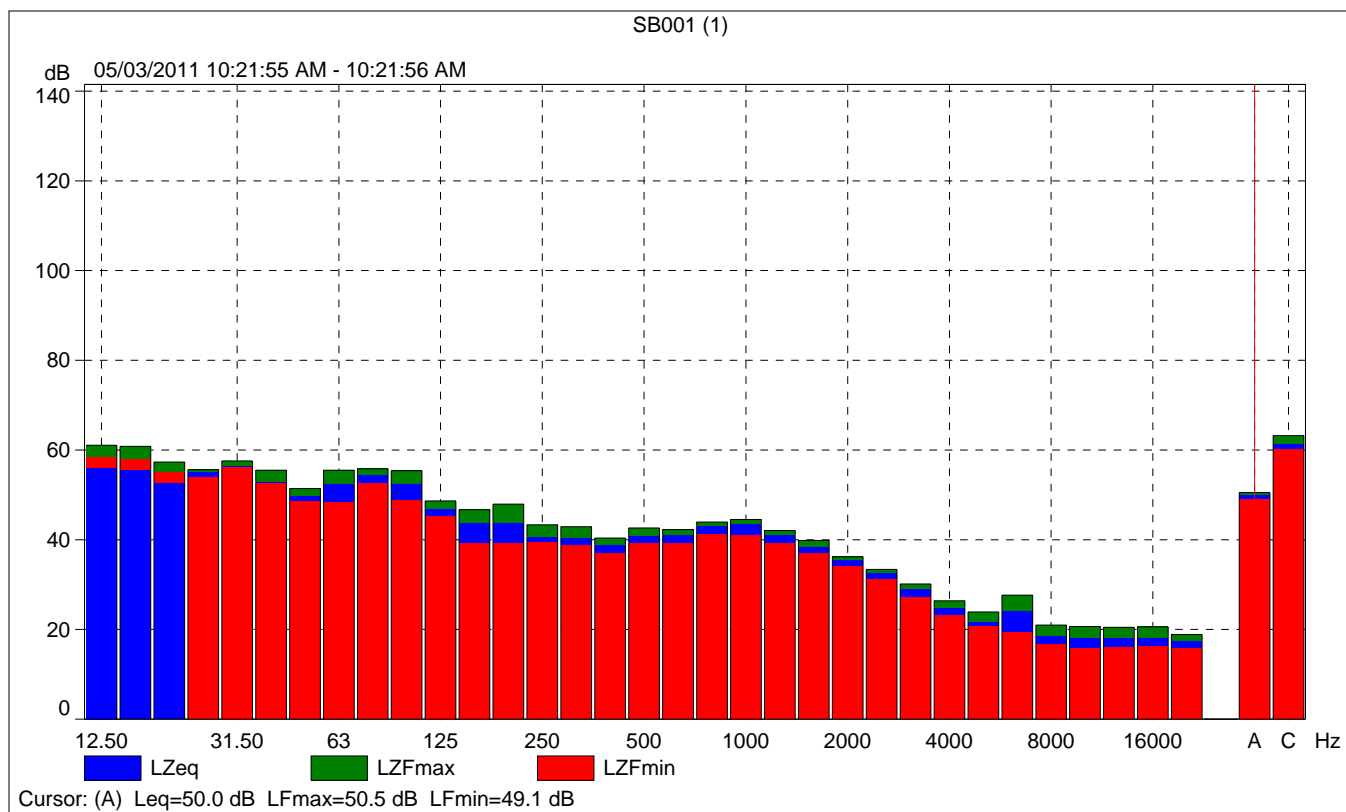
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	50.1	63.9	36.9
Time	10:16:56 AM	10:26:56 AM	0:10:00				
Date	05/03/2011	05/03/2011					

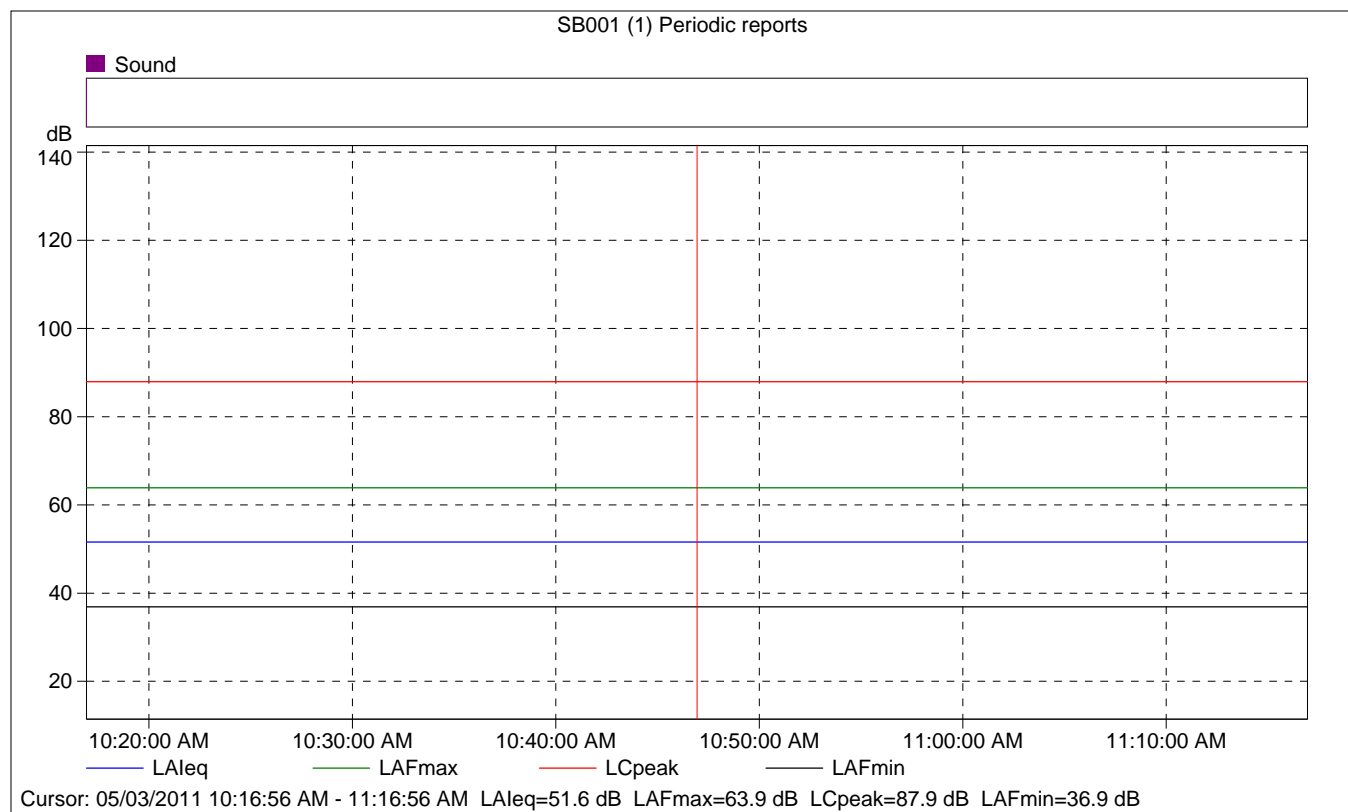




## SB001 (1)

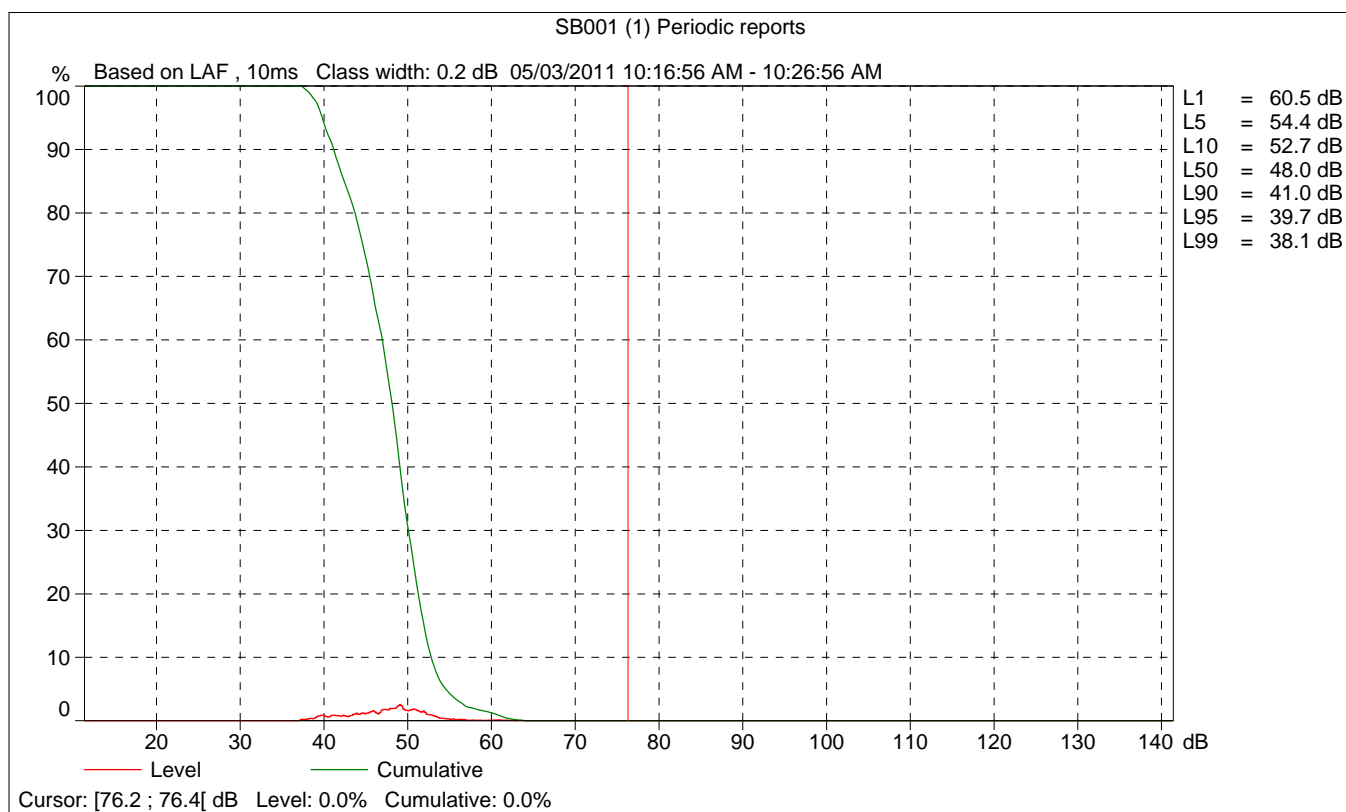
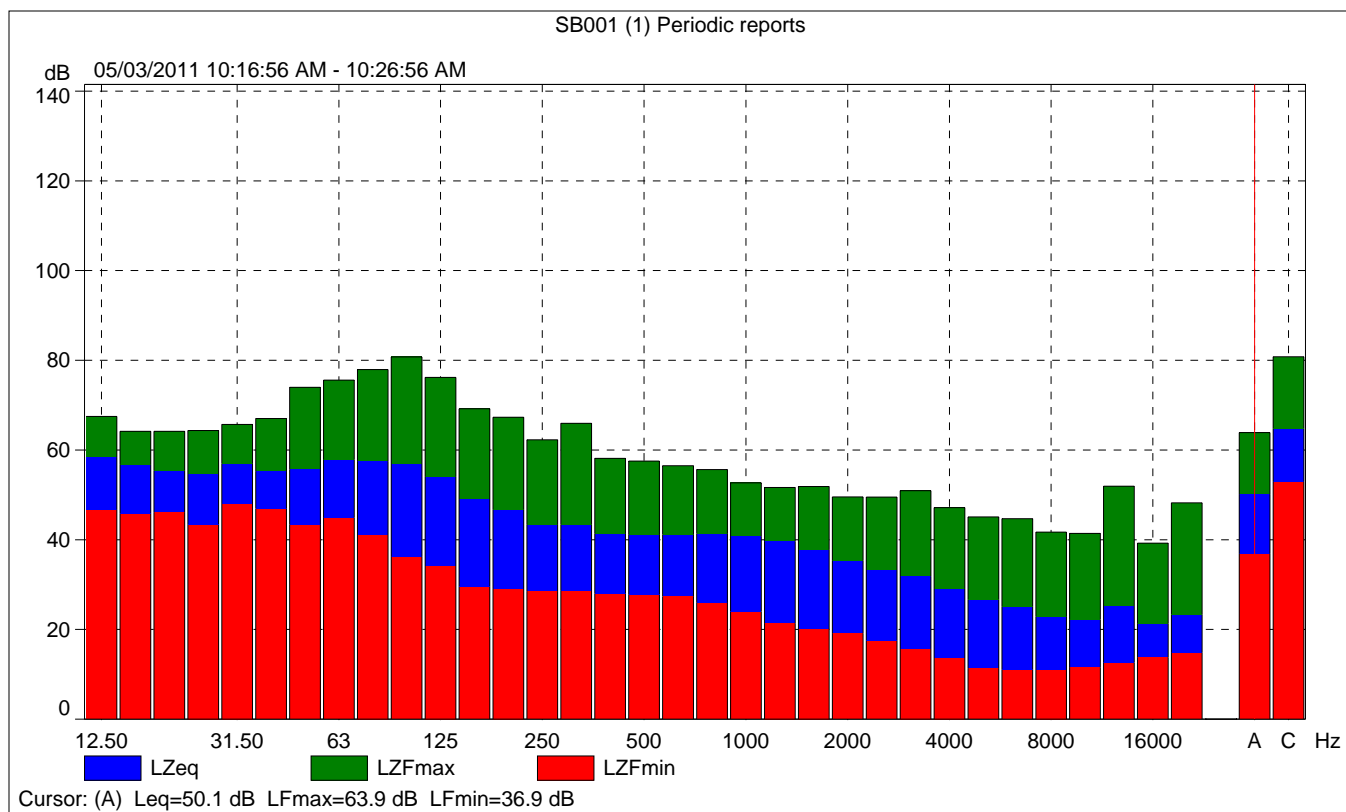
	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			50.5	50.5	49.1
Time	10:21:55 AM	0:00:01			
Date	05/03/2011				

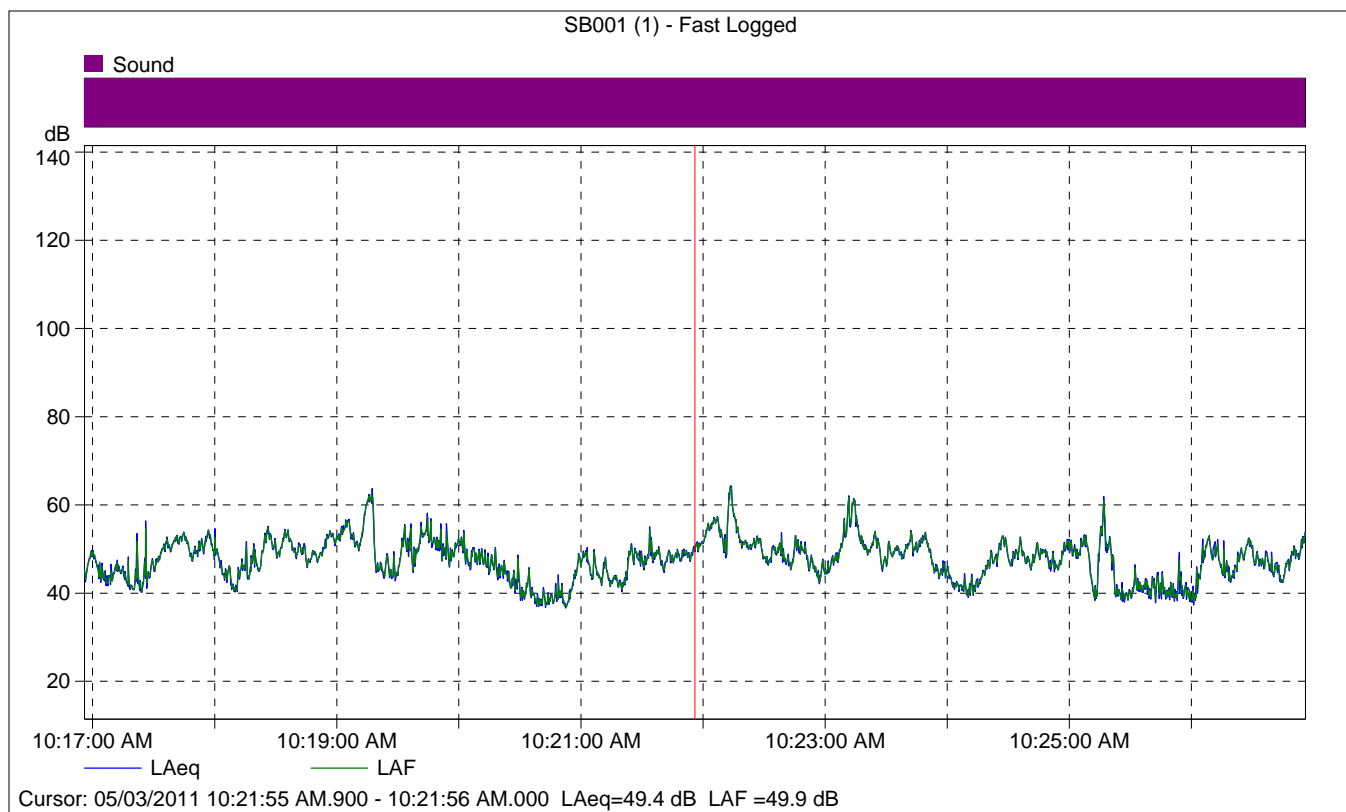




### SB001 (1) Periodic reports

	Start time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	51.6	63.9	36.9
Time	10:16:56 AM	0:10:00				
Date	05/03/2011					





### SB001 (1) - Fast Logged

	Start time	Elapsed time	LAeq [dB]
Value			49.4
Time	10:21:55 AM.900	0:00:00.100	
Date	05/03/2011		



<b>Site Number:</b> SB002			
<b>Recorded By:</b> Kelly Chiene			
<b>Job Number:</b> 10-107353			
<b>Date:</b> 5/3/11			
<b>Time:</b> 11:28 a.m.			
<b>Location:</b> Residential uses, corner of Ocean Avenue and 1 <sup>st</sup> Street			
<b>Source of Peak Noise:</b> Traffic along Ocean Avenue and 1 <sup>st</sup> Street; motorcycles, power tool, helicopter			
<b>Noise Data</b>			
<b>Leq (dB)</b>	<b>Lmin (dB)</b>	<b>Lmax (dB)</b>	<b>Peak (dB)</b>
60.0	43.6	78.5	98.3

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	11/14/2007	
	Microphone	Brüel & Kjær	4189	2543364	11/15/2007	
	Preamp	Brüel & Kjær	ZC 0032	4265	7/18/2006	
	Calibrator	Brüel & Kjær	4231	2545667	7/31/2006	
Weather Data						
Est.	<b>Duration:</b> 10 minutes			<b>Sky:</b> ☀		
	<b>Note:</b> dBA Offset = -0.2			<b>Sensor Height (ft):</b> 5 ft		
	<b>Wind Ave Speed (mph / m/s)</b>		<b>Temperature (degrees Fahrenheit)</b>		<b>Barometer Pressure (hPa)</b>	
	1.8		82.6		1014.8	

### Photo of Measurement Location



## 2250

Instrument:		2250
Application:		BZ7225 Version 2.0.2
Start Time:		05/03/2011 11:28:00
End Time:		05/03/2011 11:38:00
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		140.17

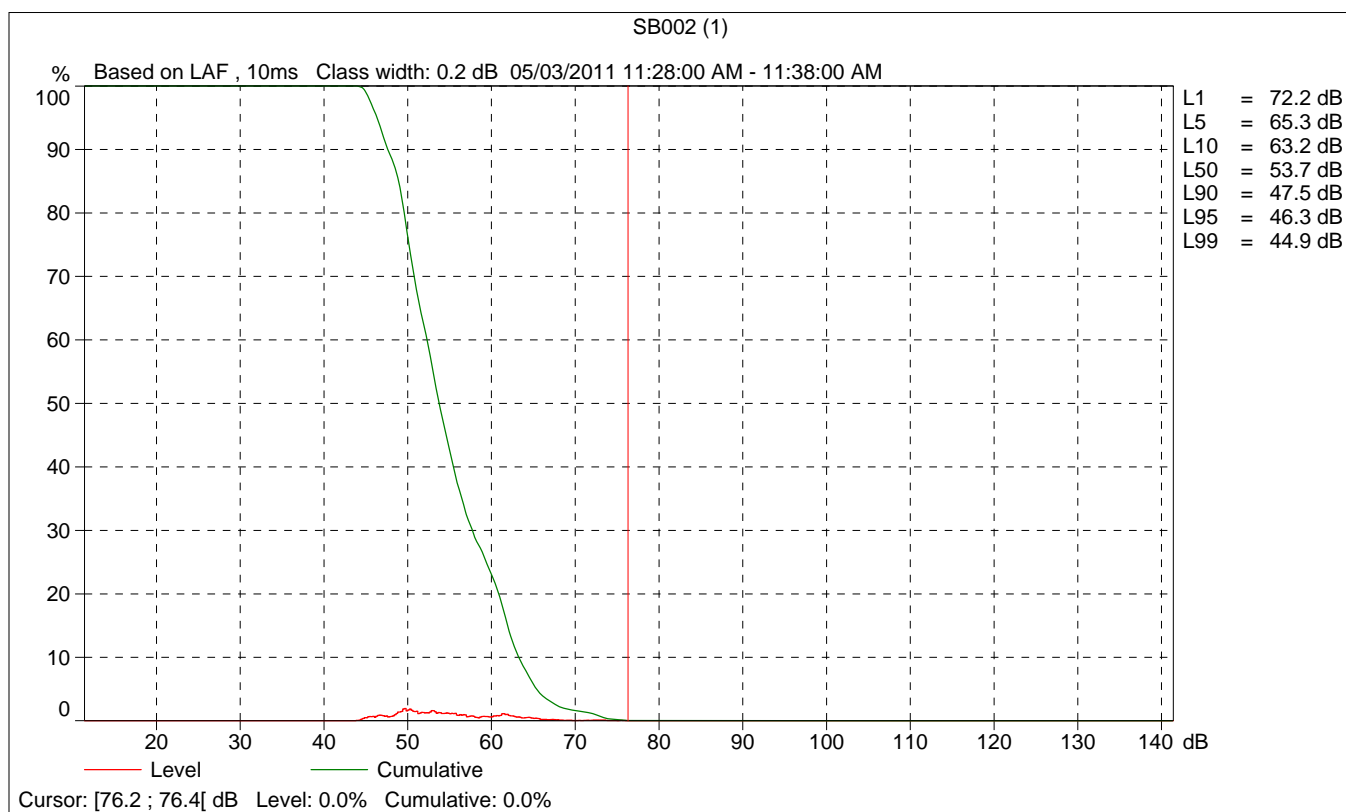
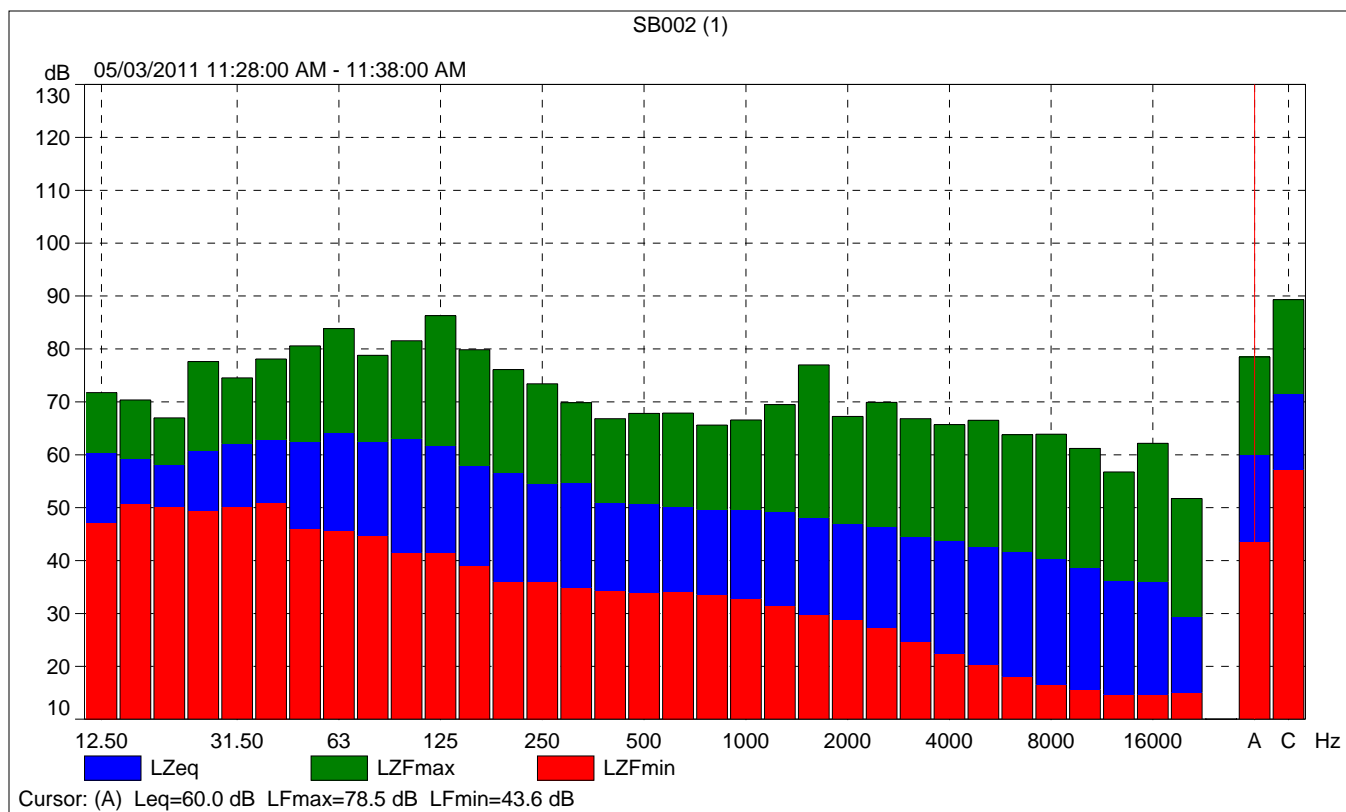
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

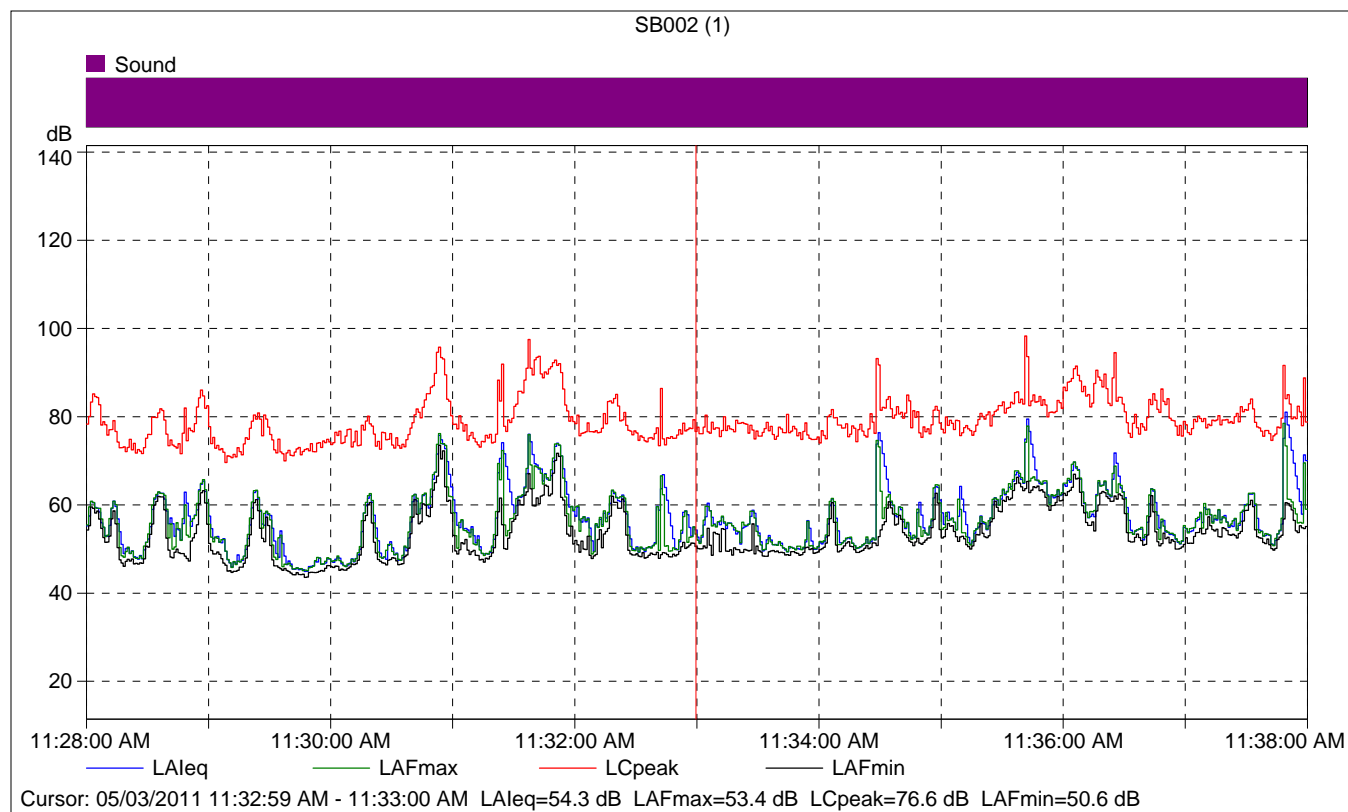
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Diffuse-field

Calibration Time:		05/03/2011 09:04:54
Calibration Type:		External reference
Sensitivity:		54.69 mV/Pa

## SB002 (1)

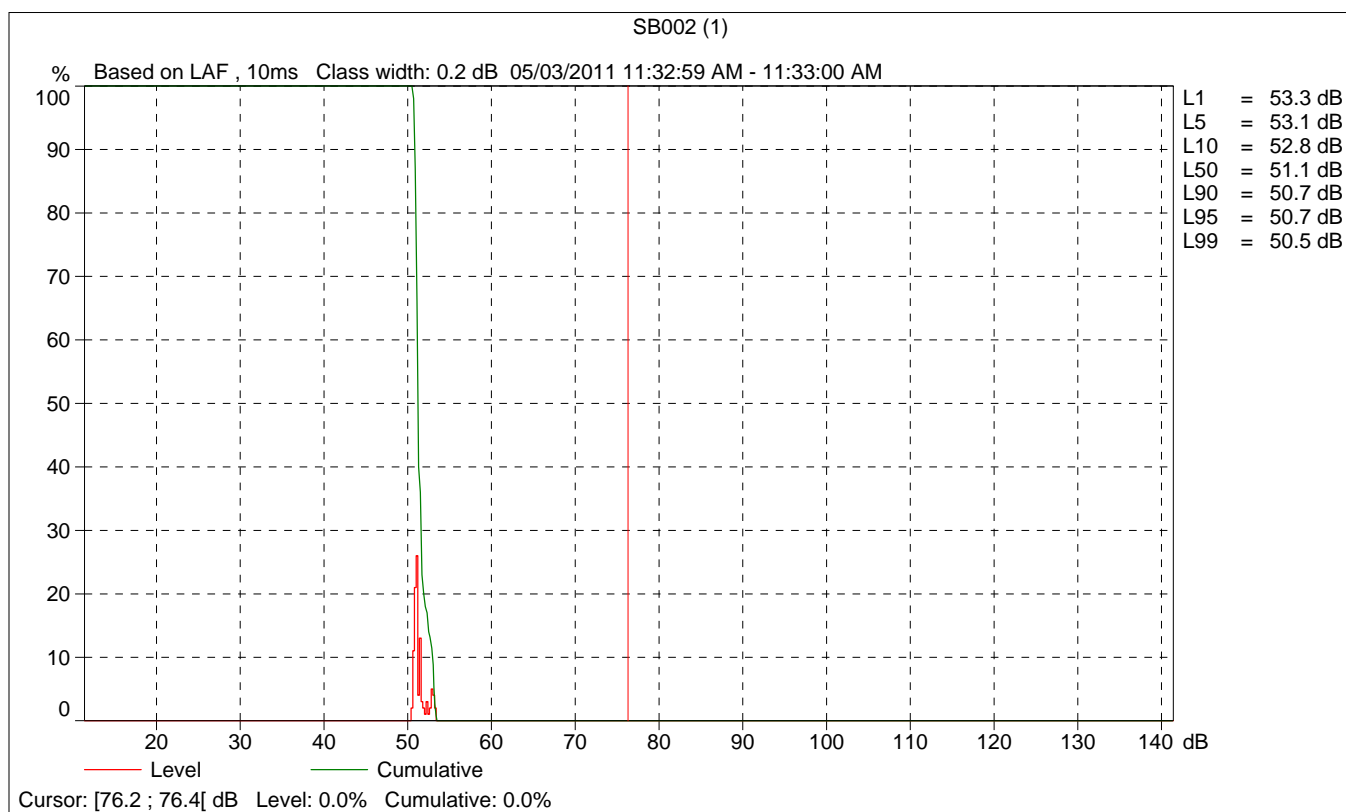
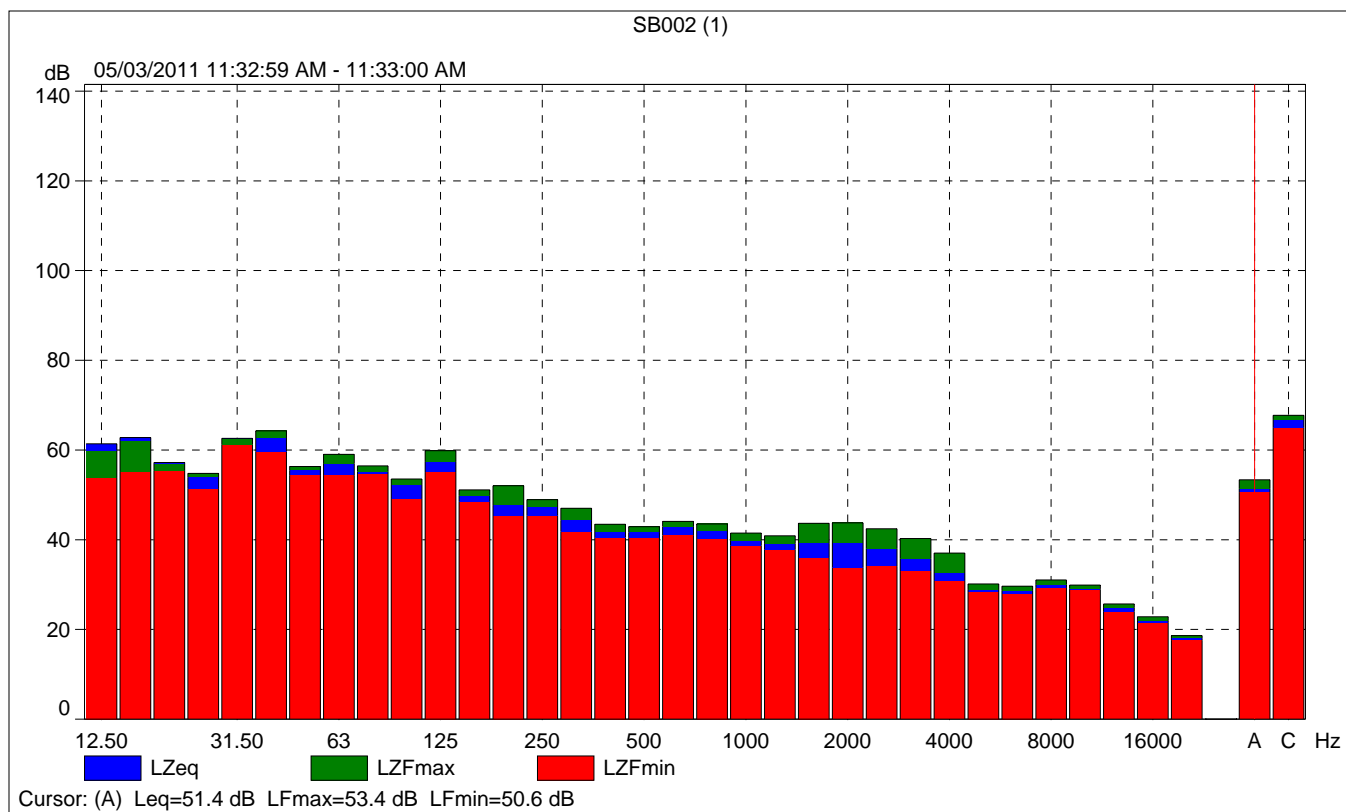
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	60.0	78.5	43.6
Time	11:28:00 AM	11:38:00 AM	0:10:00				
Date	05/03/2011	05/03/2011					

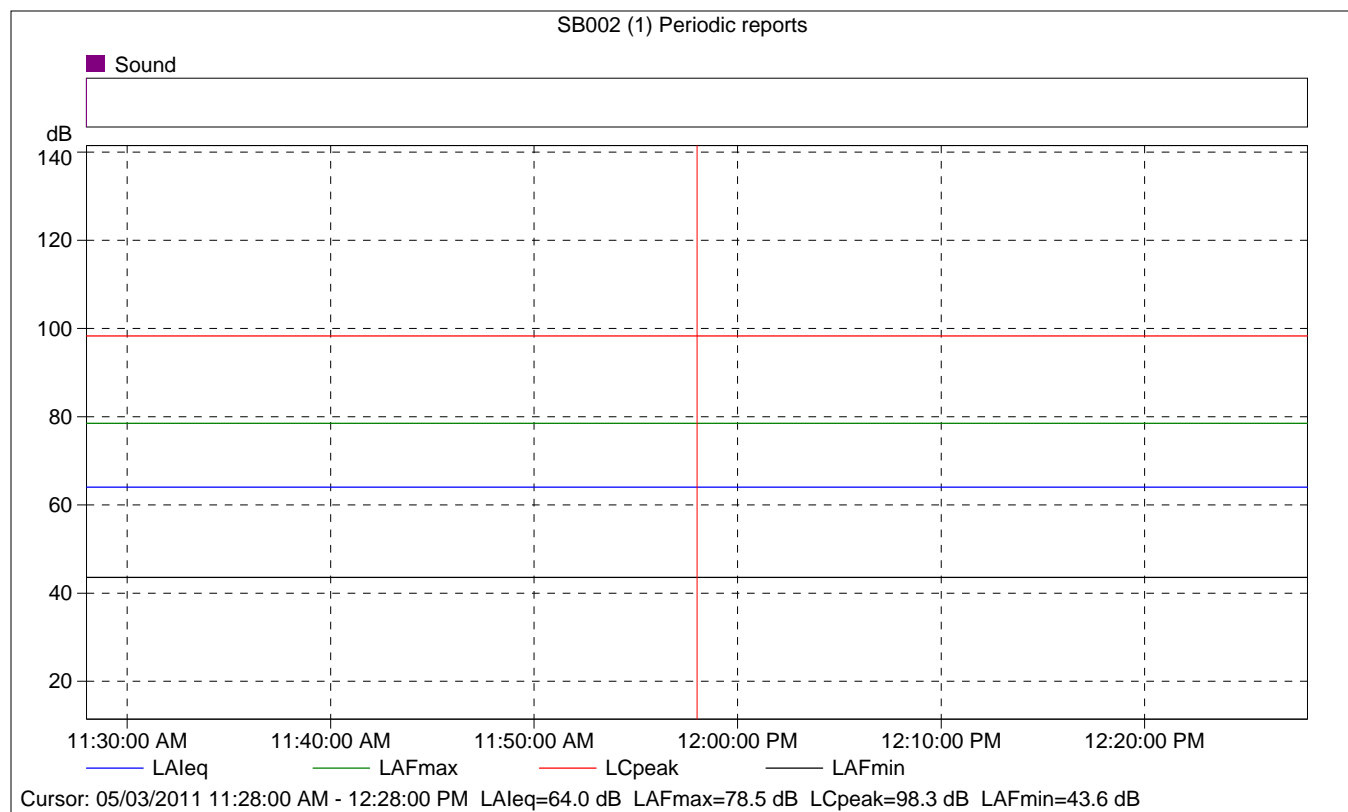




## SB002 (1)

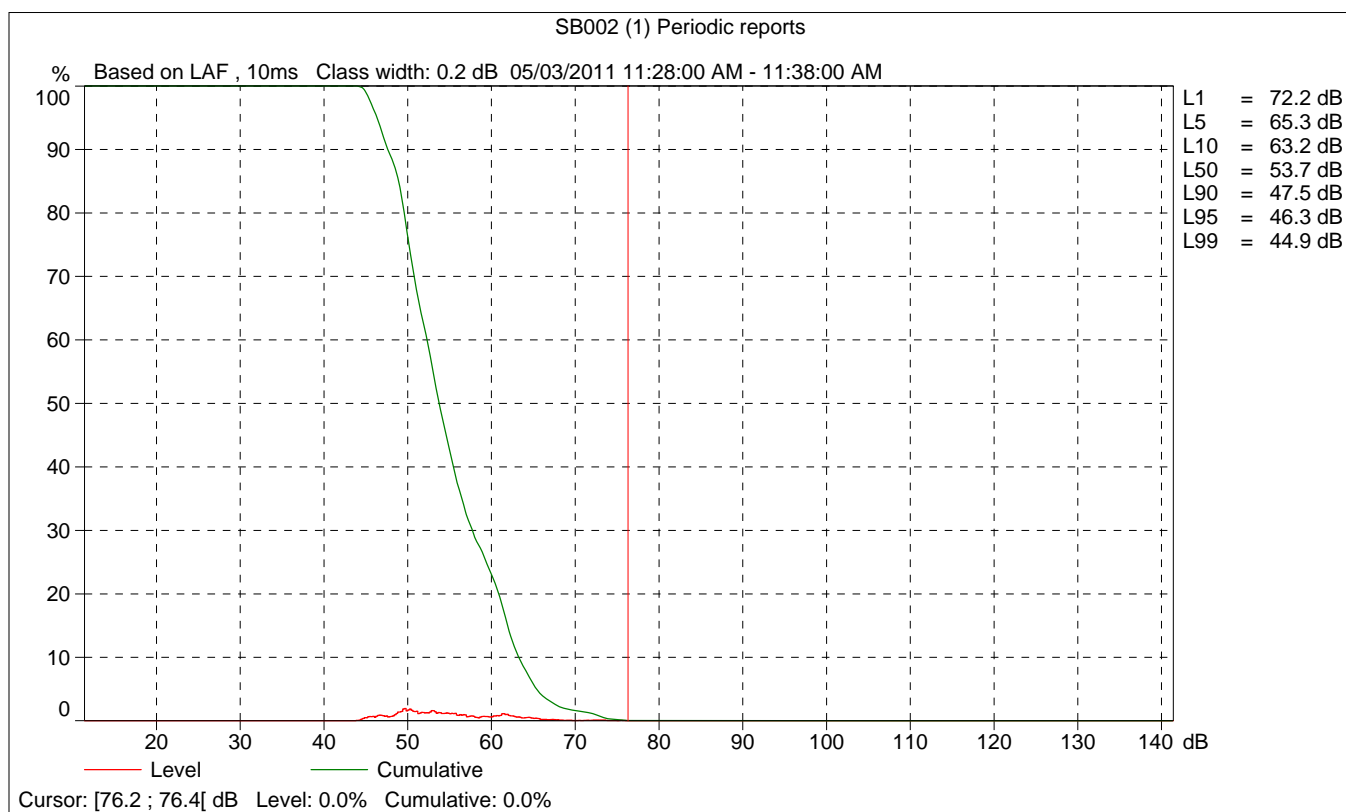
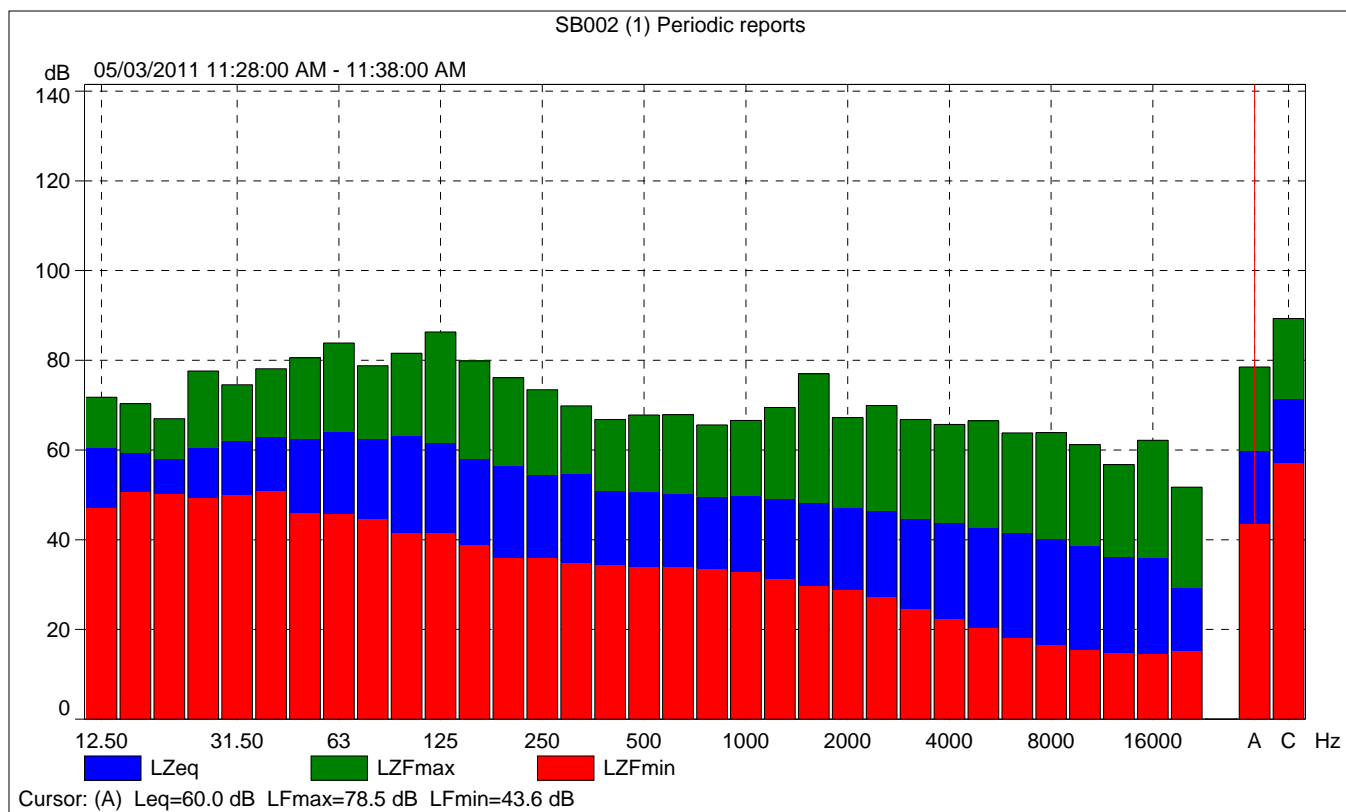
	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			54.3	53.4	50.6
Time	11:32:59 AM	0:00:01			
Date	05/03/2011				

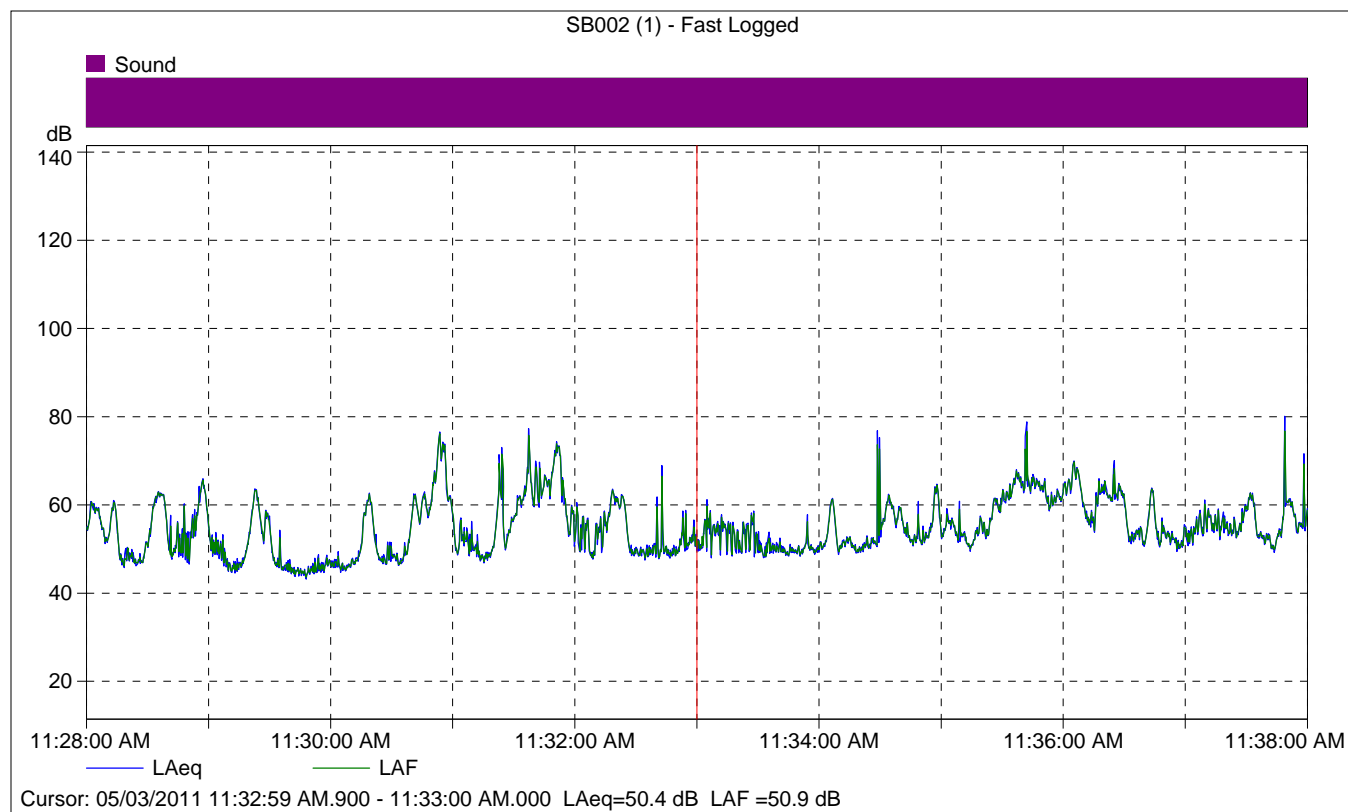




## SB002 (1) Periodic reports

	Start time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	64.0	78.5	43.6
Time	11:28:00 AM	0:10:00				
Date	05/03/2011					





### SB002 (1) - Fast Logged

	Start time	Elapsed time	LAeq [dB]
Value			50.4
Time	11:32:59 AM.900	0:00:00.100	
Date	05/03/2011		



<b>Site Number:</b> SB003			
<b>Recorded By:</b> Kelly Chiene			
<b>Job Number:</b> 10-107353			
<b>Date:</b> 5/3/11			
<b>Time:</b> 1:05 p.m.			
<b>Location:</b> Residential uses, corner of 1 <sup>st</sup> Street and Central Way			
<b>Source of Peak Noise:</b> Traffic along Central Way and 1 <sup>st</sup> Street; wind			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
53.0	46.2	64.9	89.9

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	11/14/2007	
	Microphone	Brüel & Kjær	4189	2543364	11/15/2007	
	Preamp	Brüel & Kjær	ZC 0032	4265	7/18/2006	
	Calibrator	Brüel & Kjær	4231	2545667	7/31/2006	
Weather Data						
Est.	<b>Duration:</b> 10 minutes			<b>Sky:</b> ☀		
	<b>Note:</b> dBA Offset =-0.2			<b>Sensor Height (ft):</b> 5 ft		
	<b>Wind Ave Speed (mph / m/s)</b>		<b>Temperature (degrees Fahrenheit)</b>		<b>Barometer Pressure (hPa)</b>	
	1.2		79.5		1014.1	

### Photo of Measurement Location



## 2250

Instrument:		2250
Application:		BZ7225 Version 2.0.2
Start Time:		05/03/2011 13:05:30
End Time:		05/03/2011 13:15:30
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		140.17

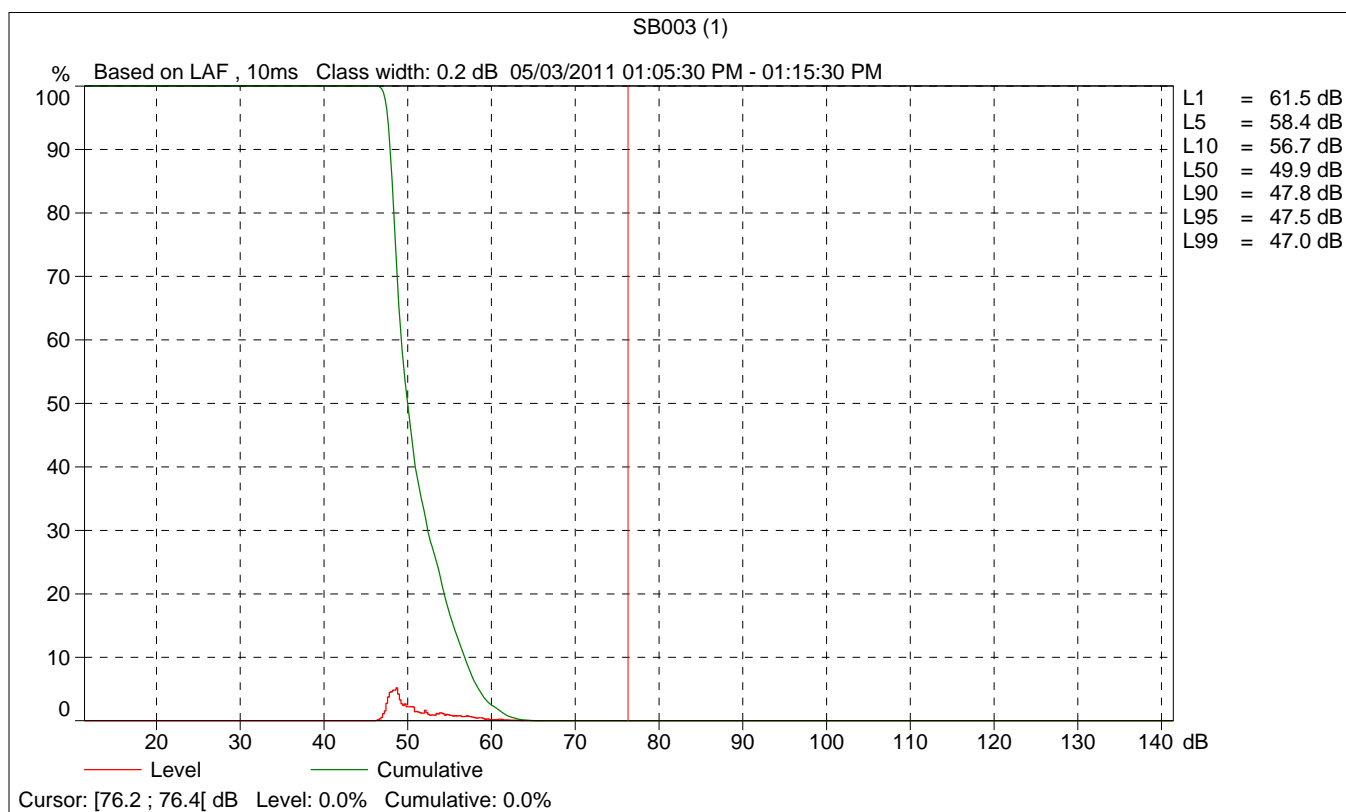
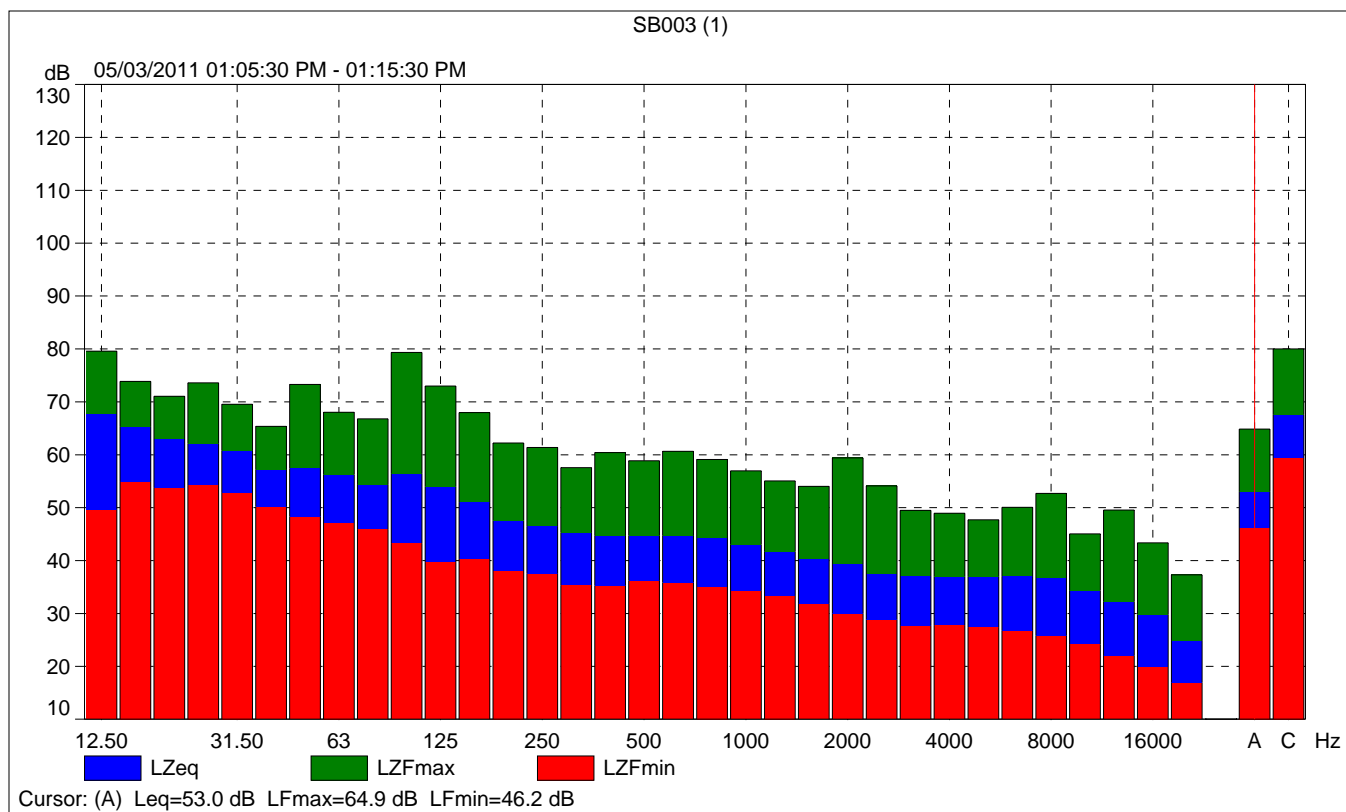
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

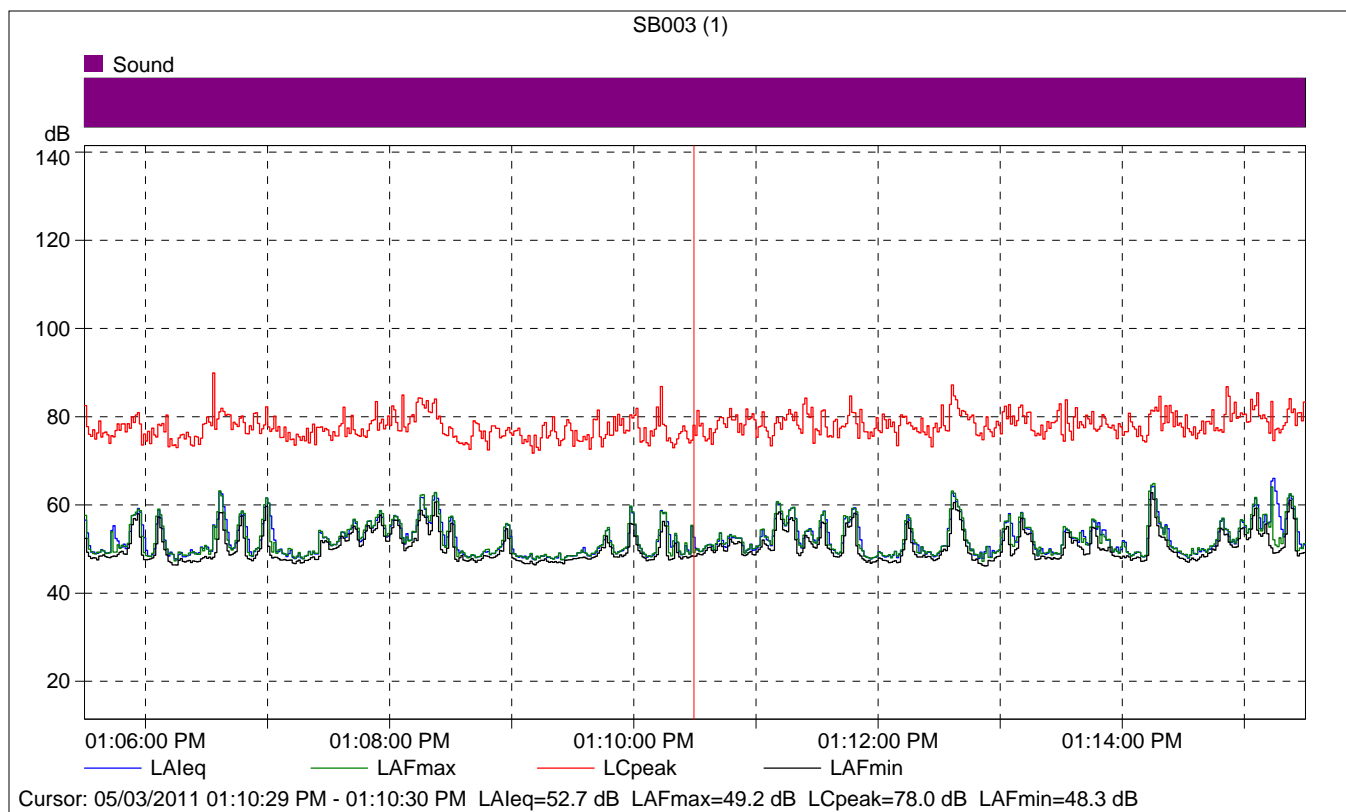
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Diffuse-field

Calibration Time:		05/03/2011 09:04:54
Calibration Type:		External reference
Sensitivity:		54.69 mV/Pa

## SB003 (1)

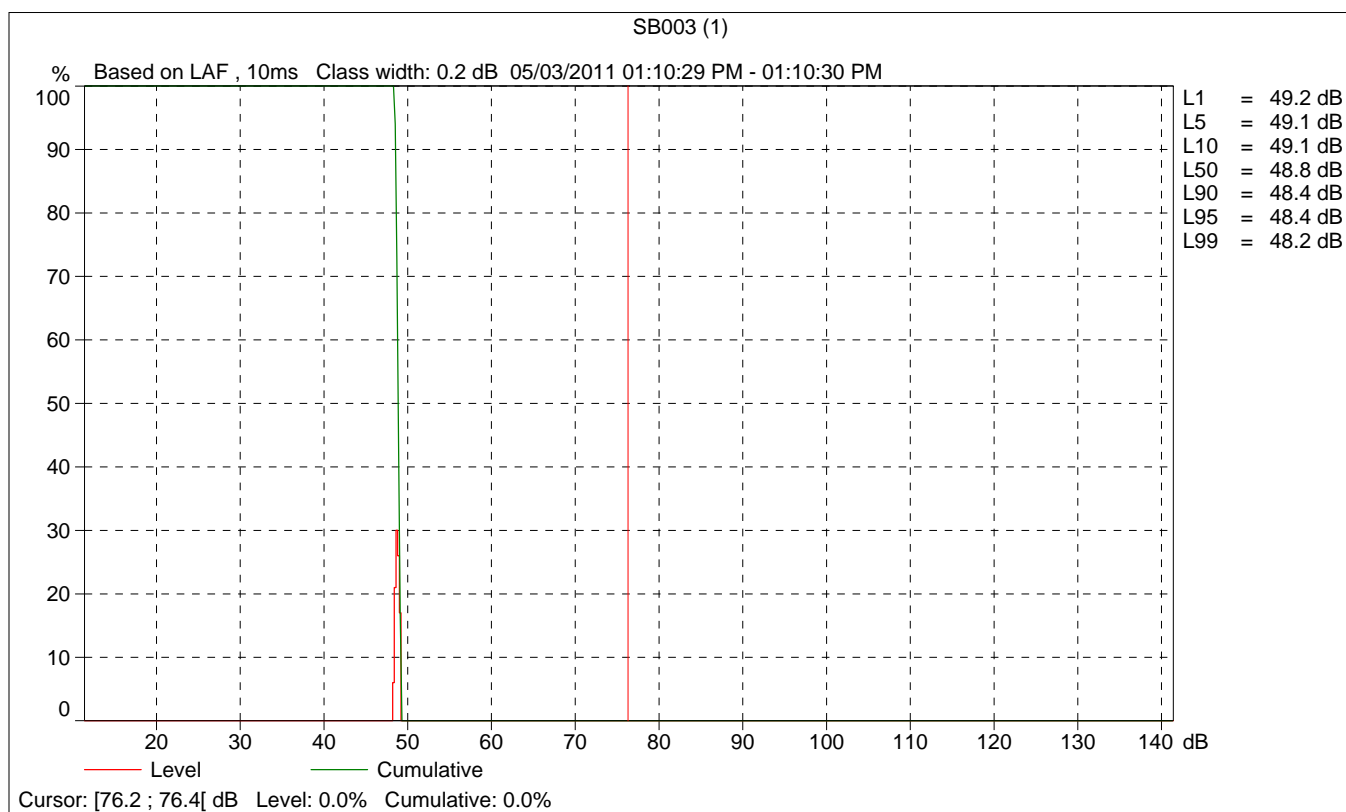
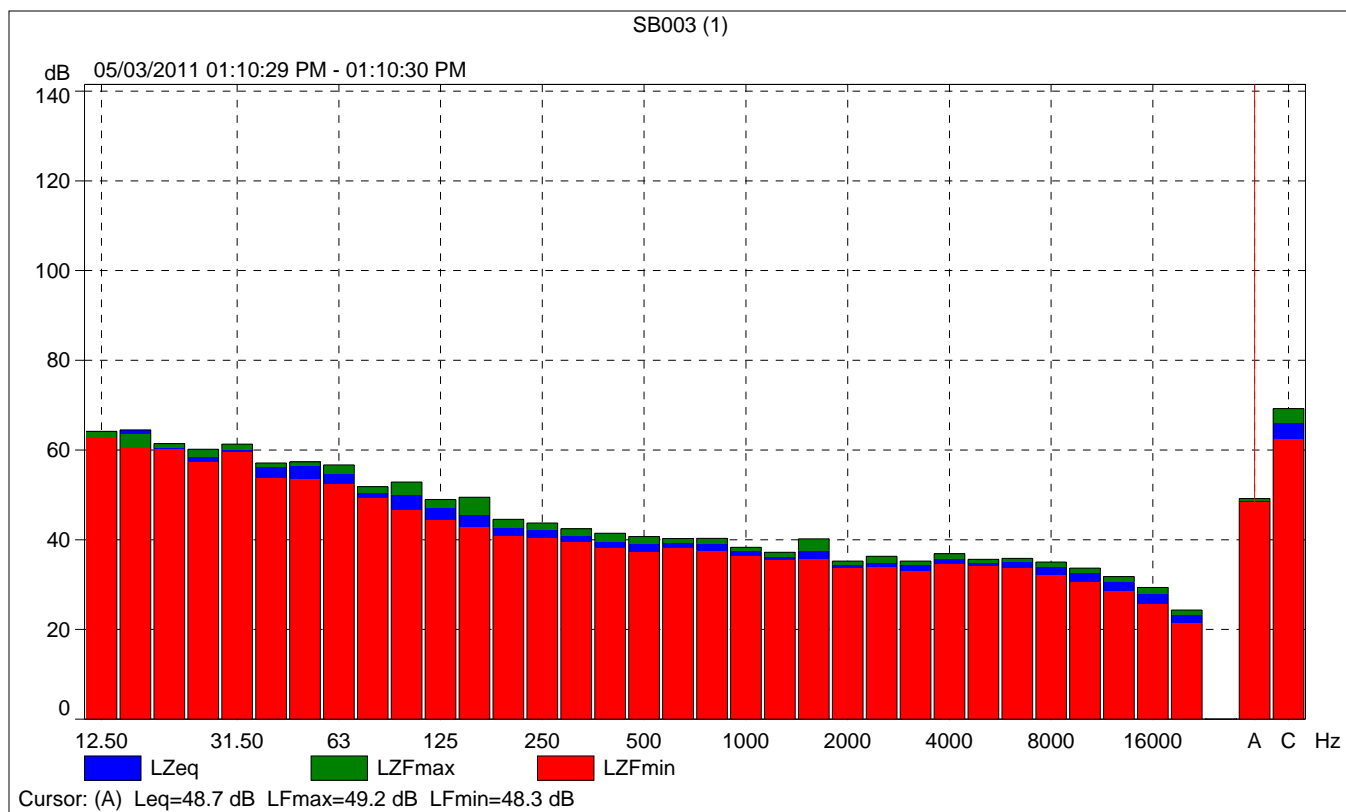
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	53.0	64.9	46.2
Time	01:05:30 PM	01:15:30 PM	0:10:00				
Date	05/03/2011	05/03/2011					

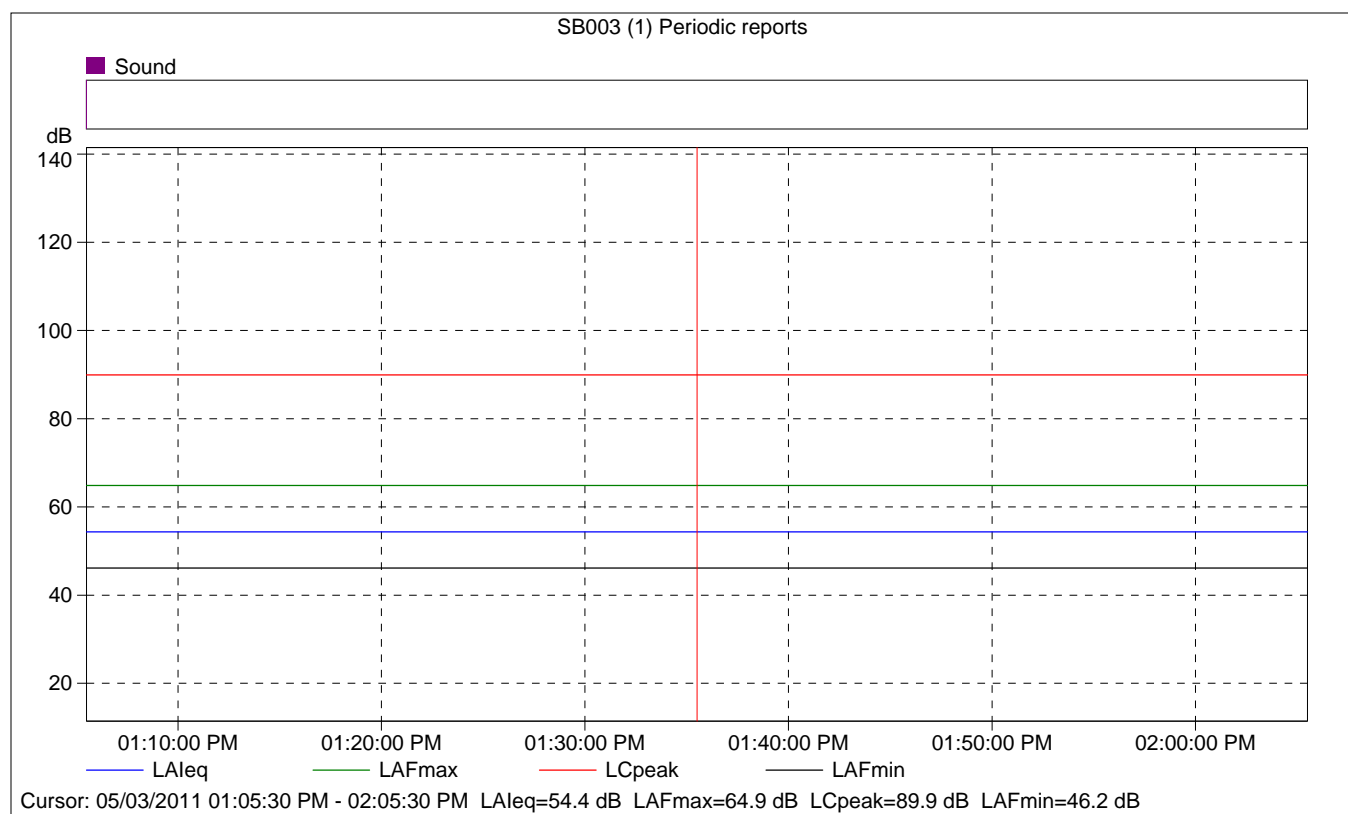




### SB003 (1)

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			52.7	49.2	48.3
Time	01:10:29 PM	0:00:01			
Date	05/03/2011				

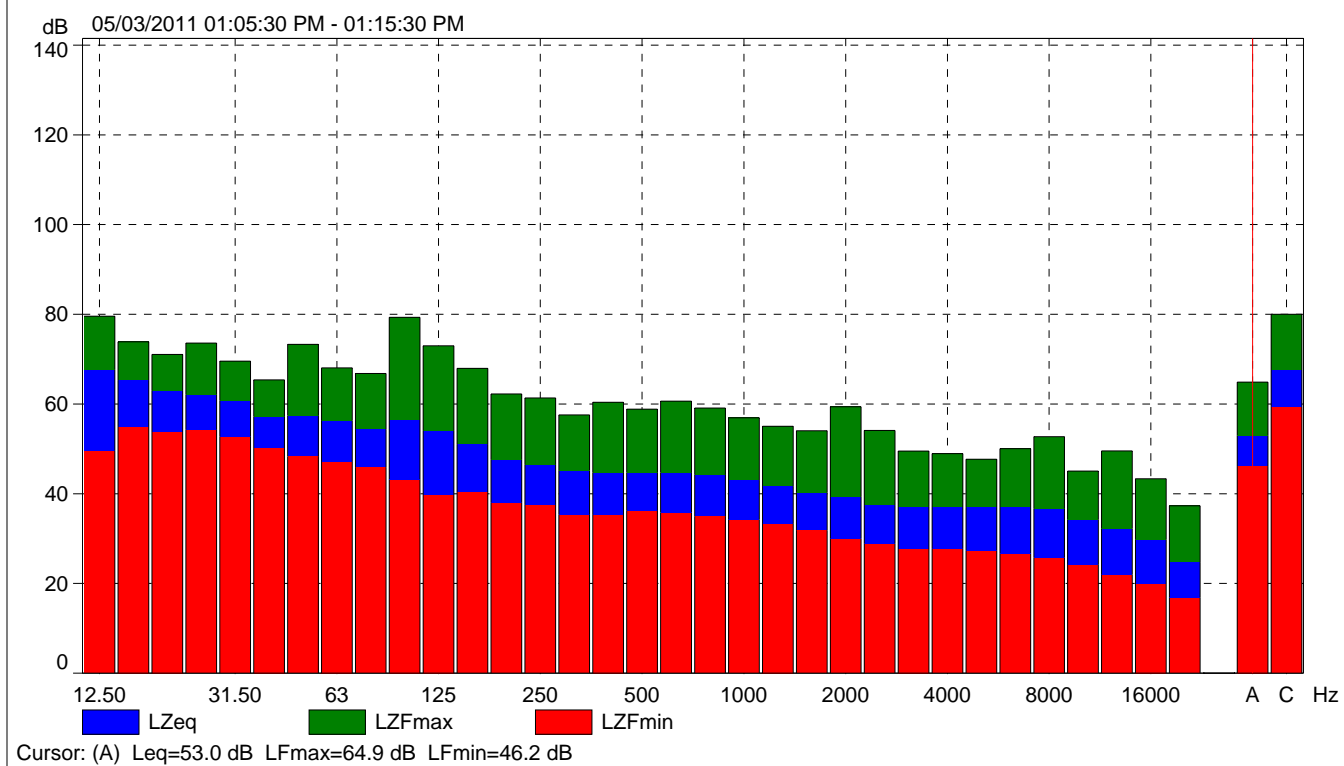




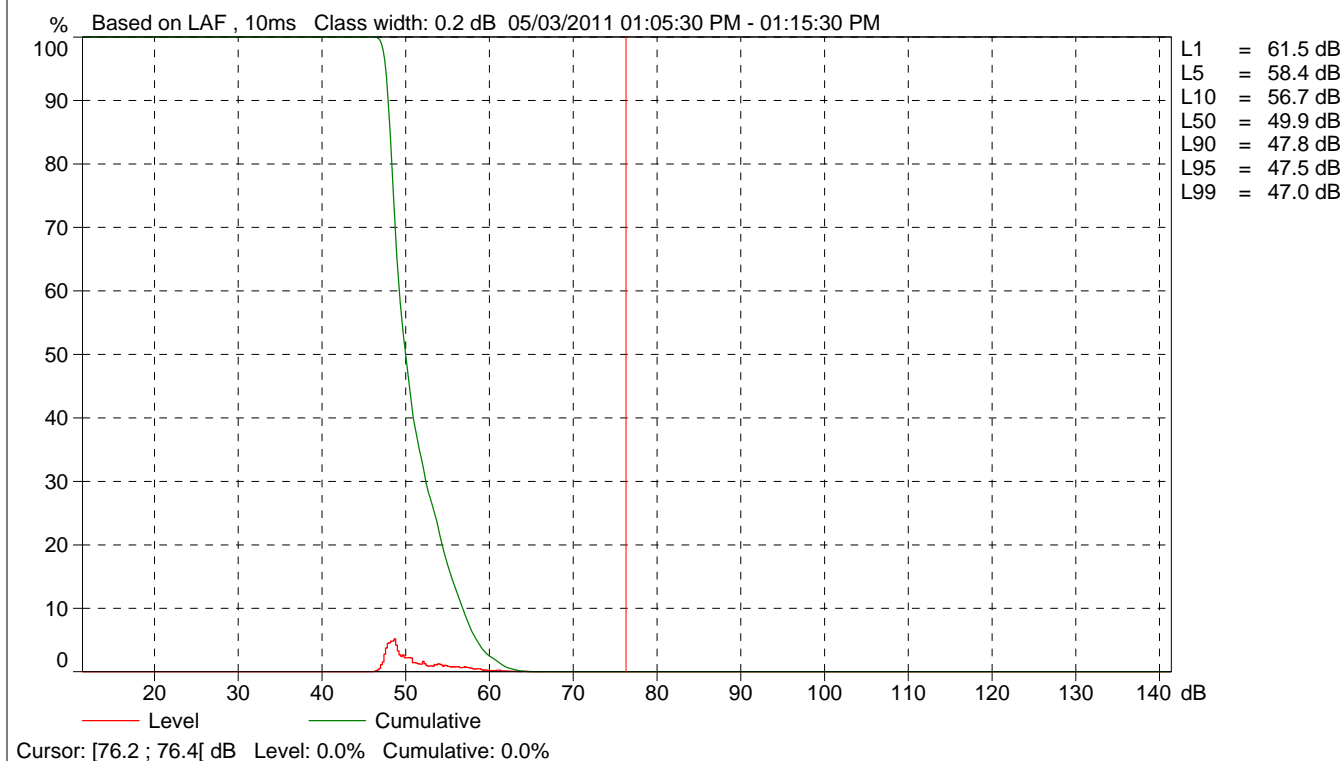
### SB003 (1) Periodic reports

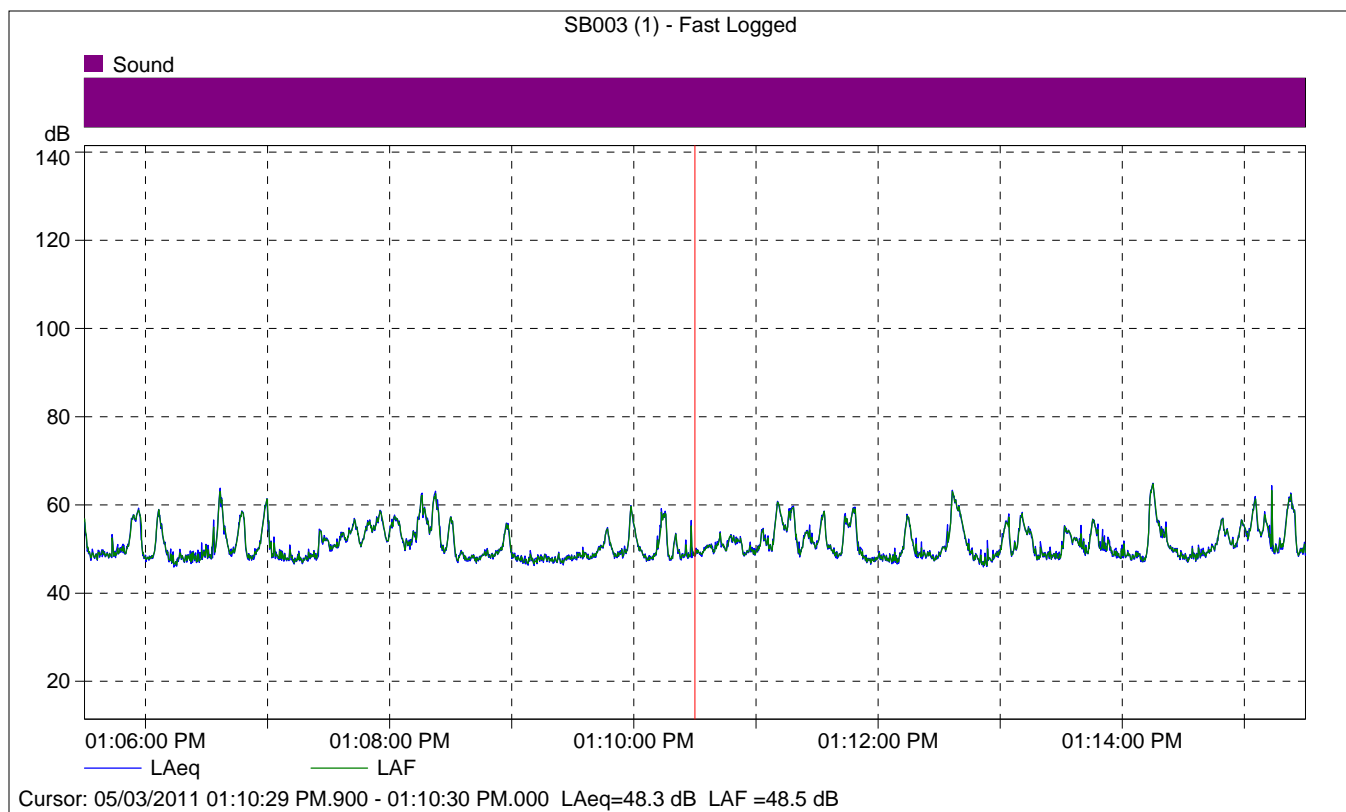
	Start time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	54.4	64.9	46.2
Time	01:05:30 PM	0:10:00				
Date	05/03/2011					

# SB003 (1) Periodic reports



# SB003 (1) Periodic reports





### SB003 (1) - Fast Logged

	Start time	Elapsed time	LAeq [dB]
Value			48.3
Time	01:10:29 PM.900	0:00:00.100	
Date	05/03/2011		



<b>Site Number:</b> SB004			
<b>Recorded By:</b> Kelly Chiene			
<b>Job Number:</b> 10-107353			
<b>Date:</b> 5/3/11			
<b>Time:</b> 1:21 p.m.			
<b>Location:</b> River Beach Townhomes, along Marina Drive			
<b>Source of Peak Noise:</b> Traffic along Marina Drive			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
57.0	48.0	70.6	90.6

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	11/14/2007	
	Microphone	Brüel & Kjær	4189	2543364	11/15/2007	
	Preamp	Brüel & Kjær	ZC 0032	4265	7/18/2006	
	Calibrator	Brüel & Kjær	4231	2545667	7/31/2006	
Weather Data						
Est.	<b>Duration:</b> 10 minutes			<b>Sky:</b> ☀		
	<b>Note:</b> dBA Offset = -0.2			<b>Sensor Height (ft):</b> 5 ft		
	<b>Wind Ave Speed (mph / m/s)</b>		<b>Temperature (degrees Fahrenheit)</b>		<b>Barometer Pressure (hPa)</b>	
	3		72		1013.8	

### Photo of Measurement Location



## 2250

Instrument:		2250
Application:		BZ7225 Version 2.0.2
Start Time:		05/03/2011 13:21:50
End Time:		05/03/2011 13:31:50
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		140.17

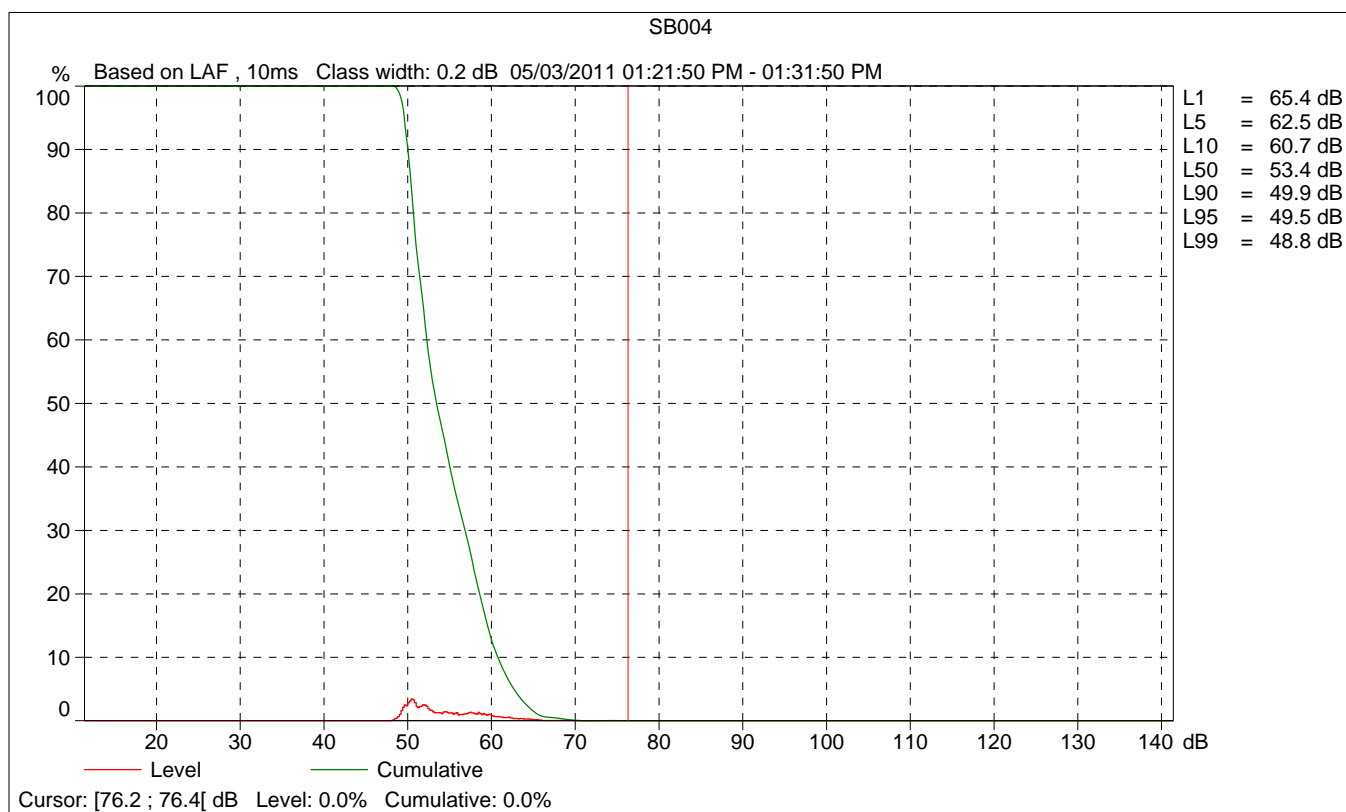
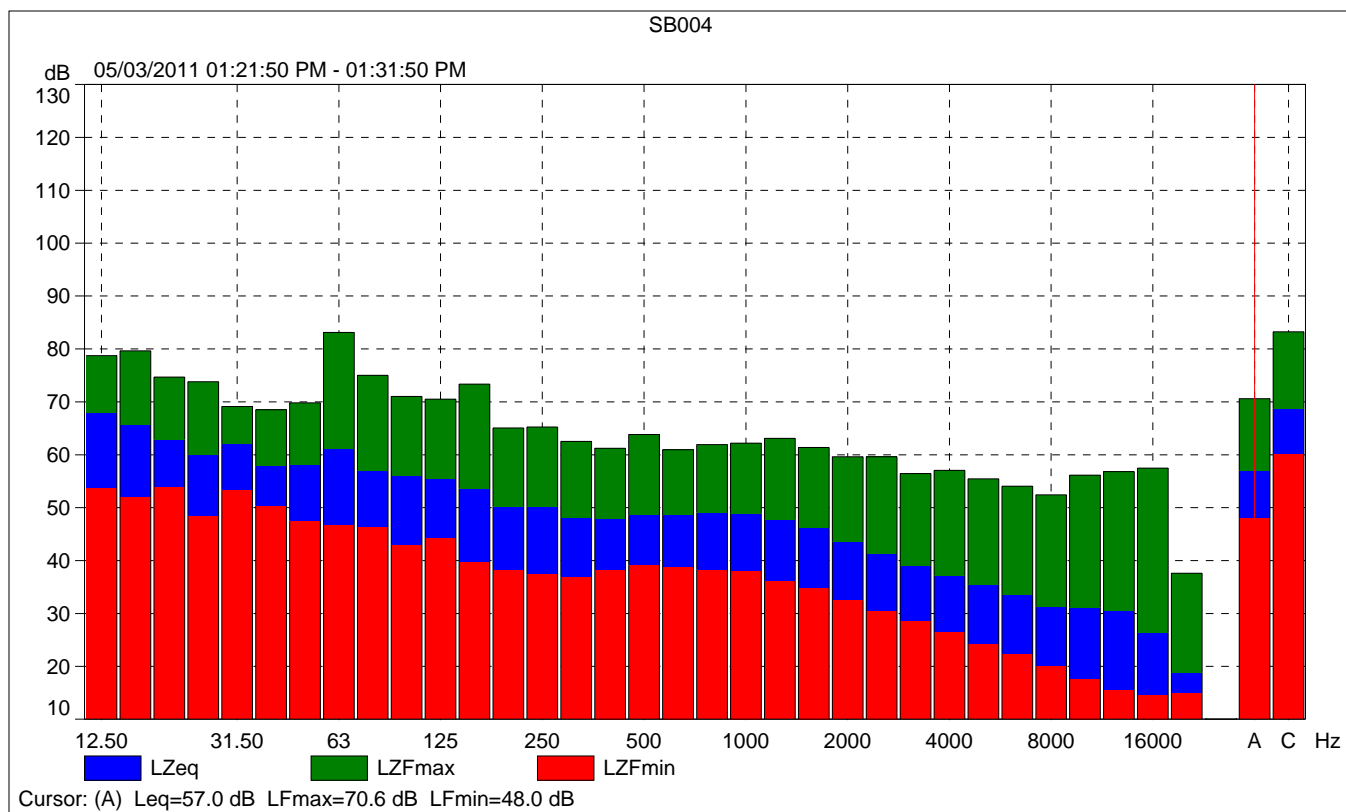
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

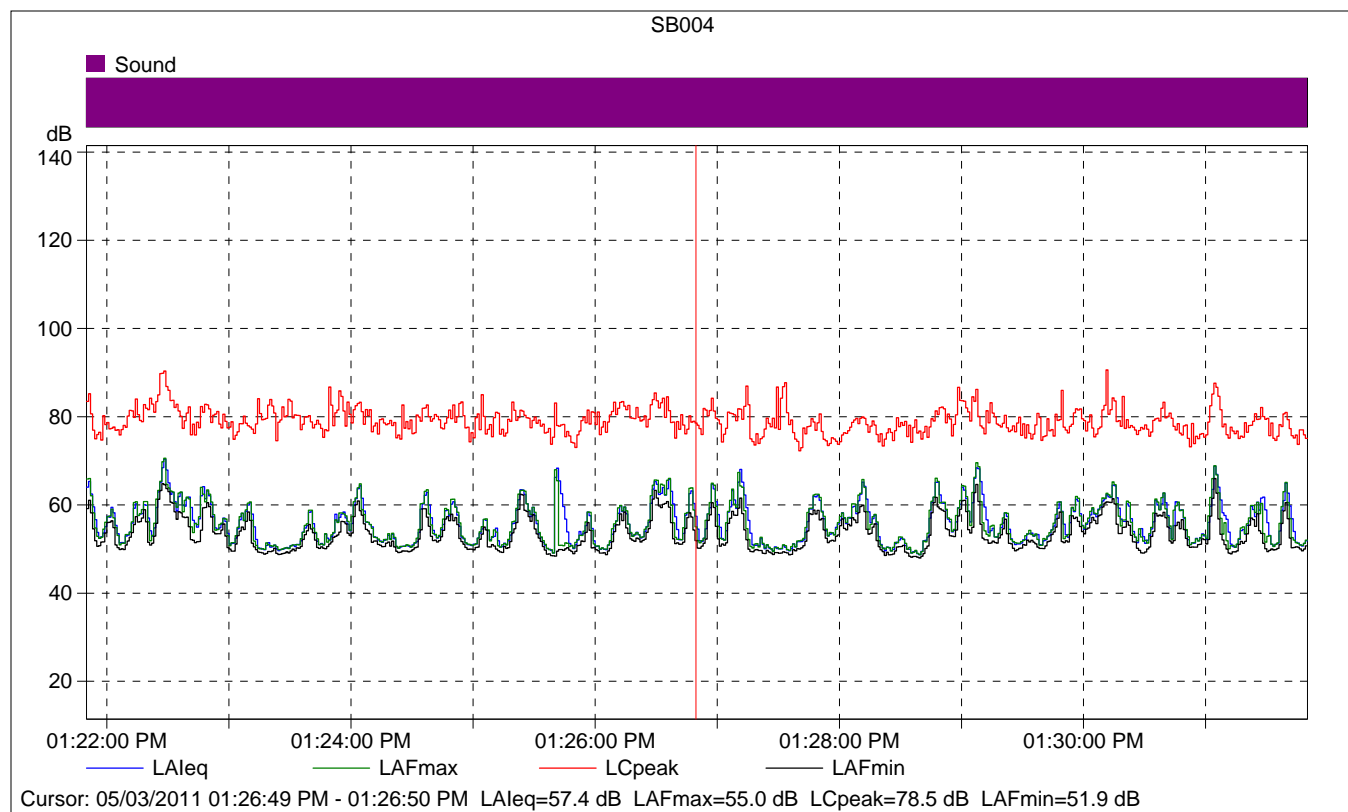
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Diffuse-field

Calibration Time:		05/03/2011 09:04:54
Calibration Type:		External reference
Sensitivity:		54.69 mV/Pa

## SB004

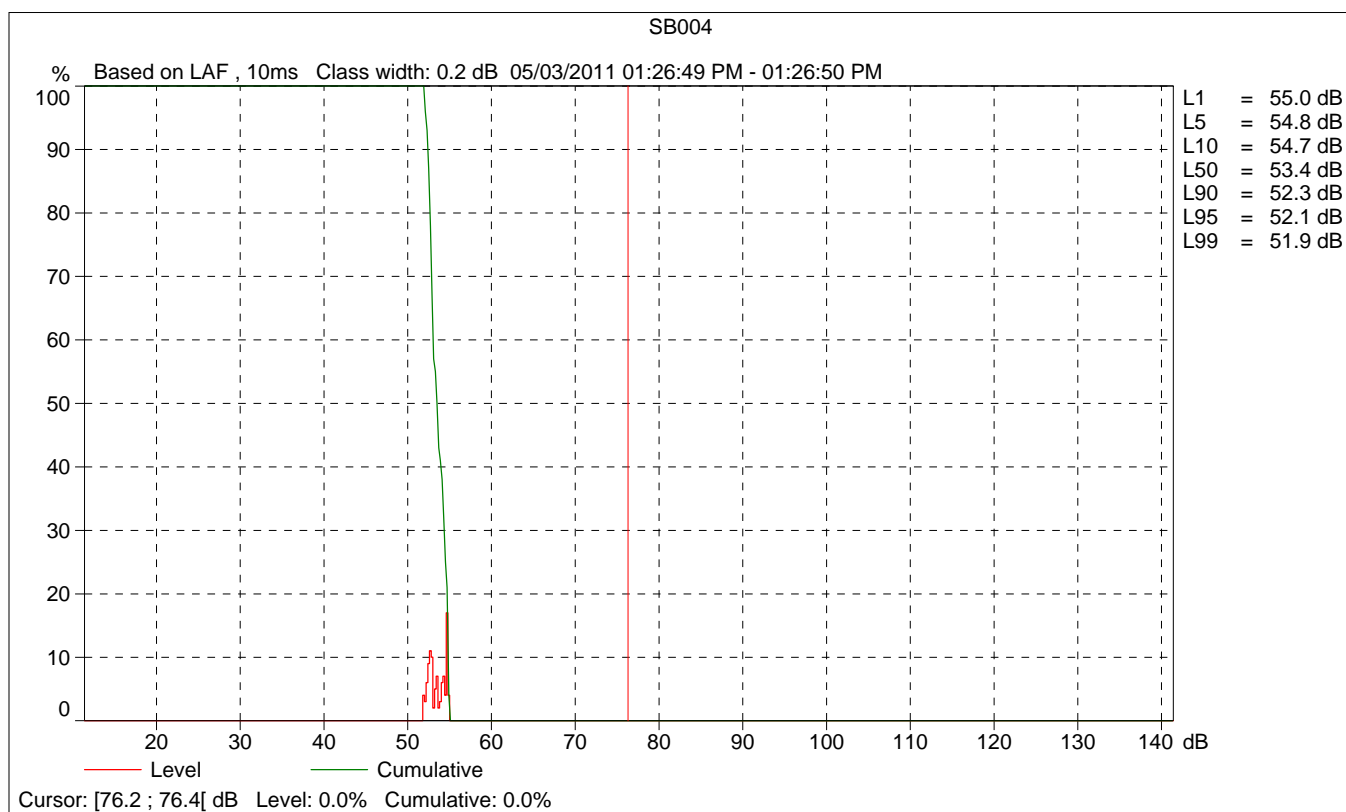
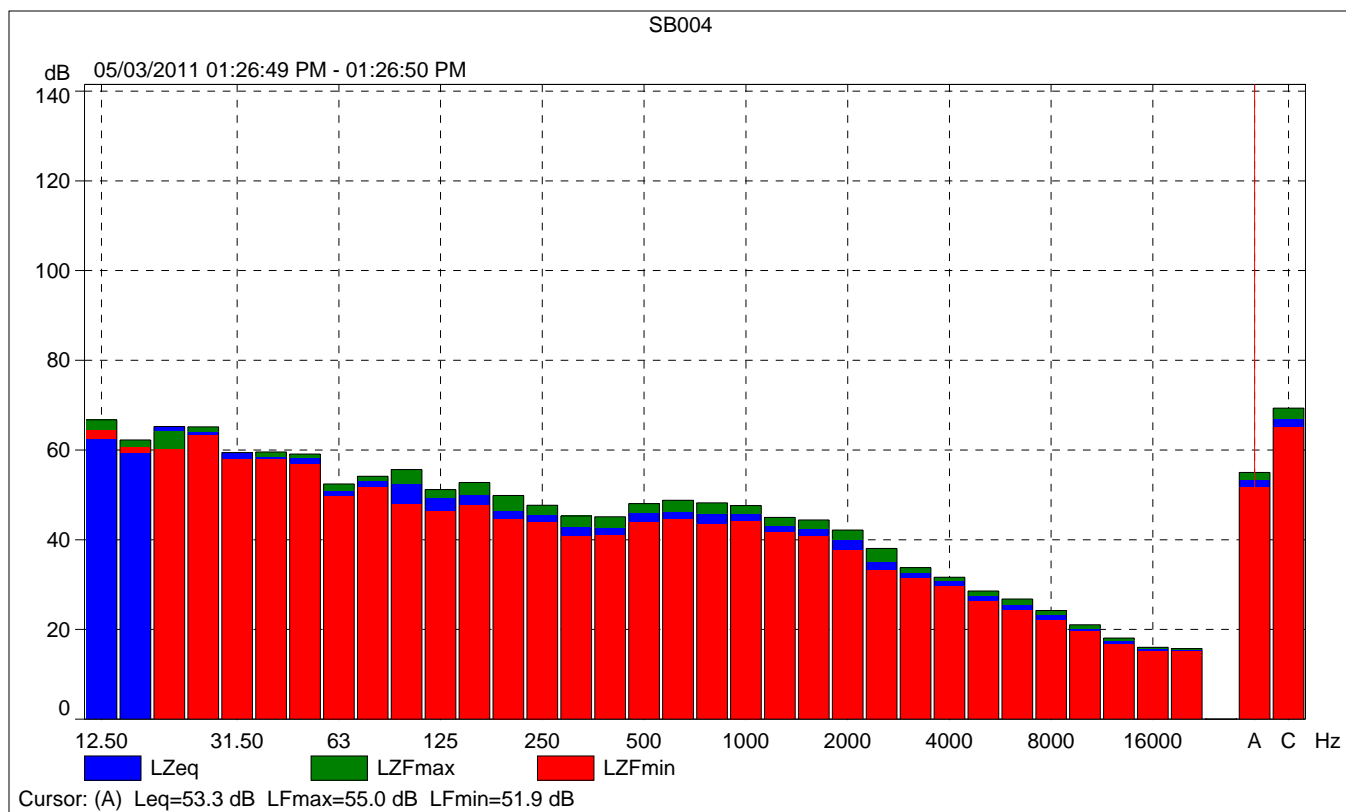
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	57.0	70.6	48.0
Time	01:21:50 PM	01:31:50 PM	0:10:00				
Date	05/03/2011	05/03/2011					

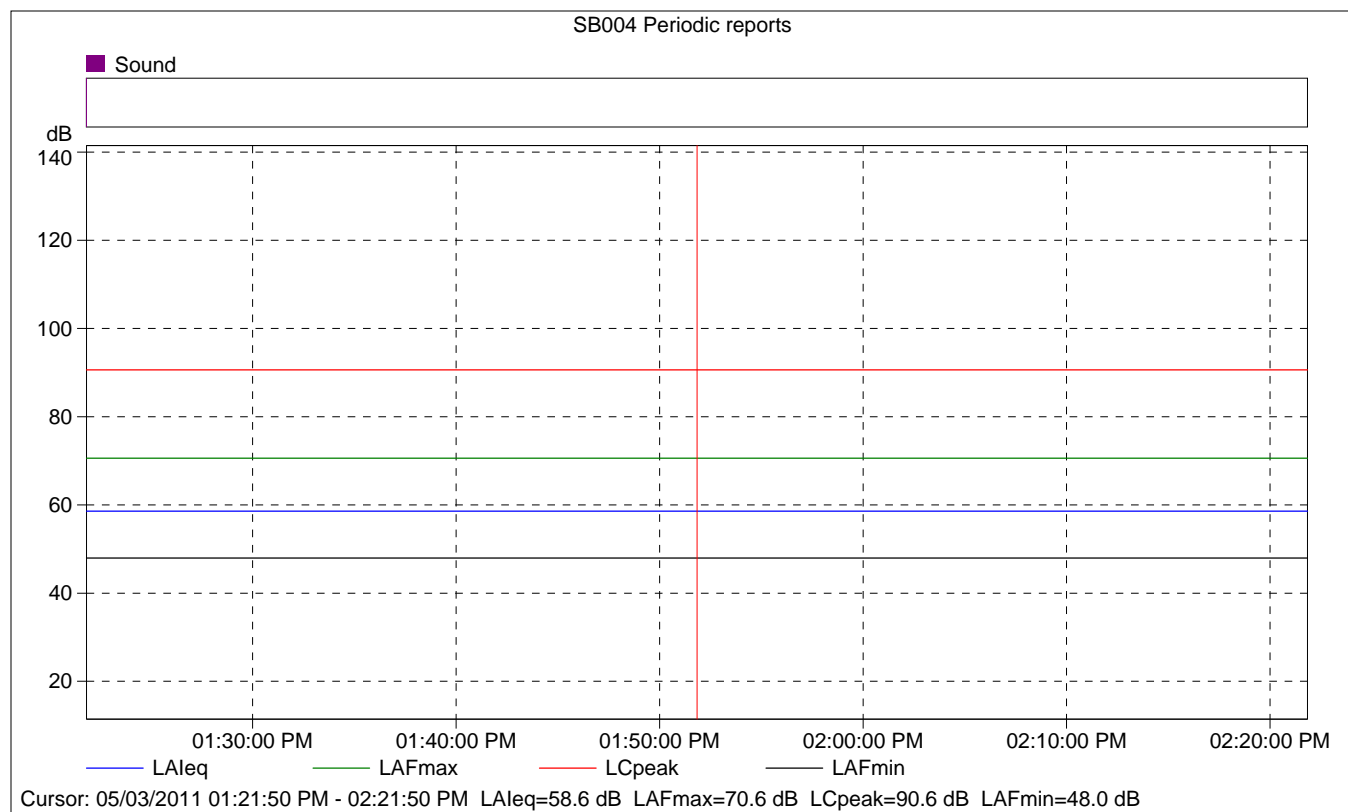




SB004

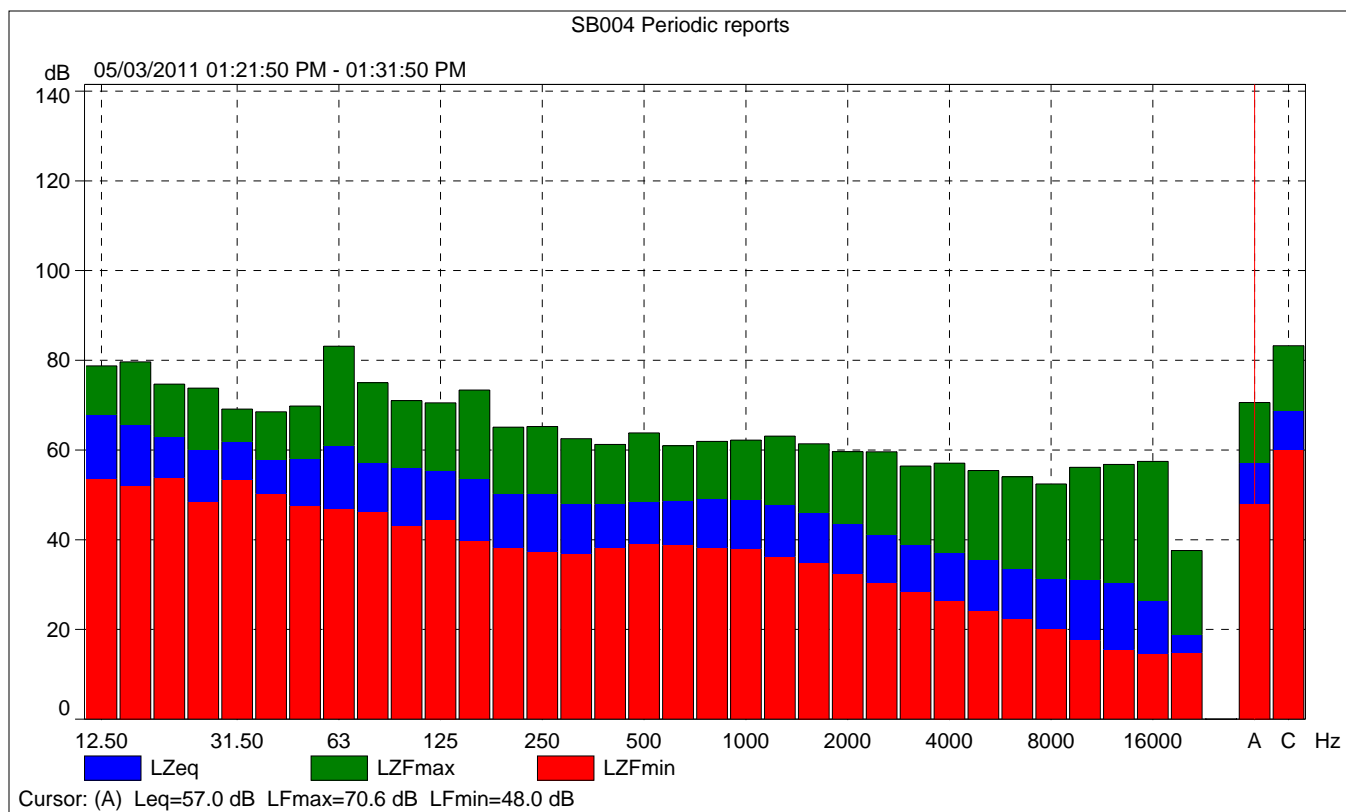
	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			57.4	55.0	51.9
Time	01:26:49 PM	0:00:01			
Date	05/03/2011				

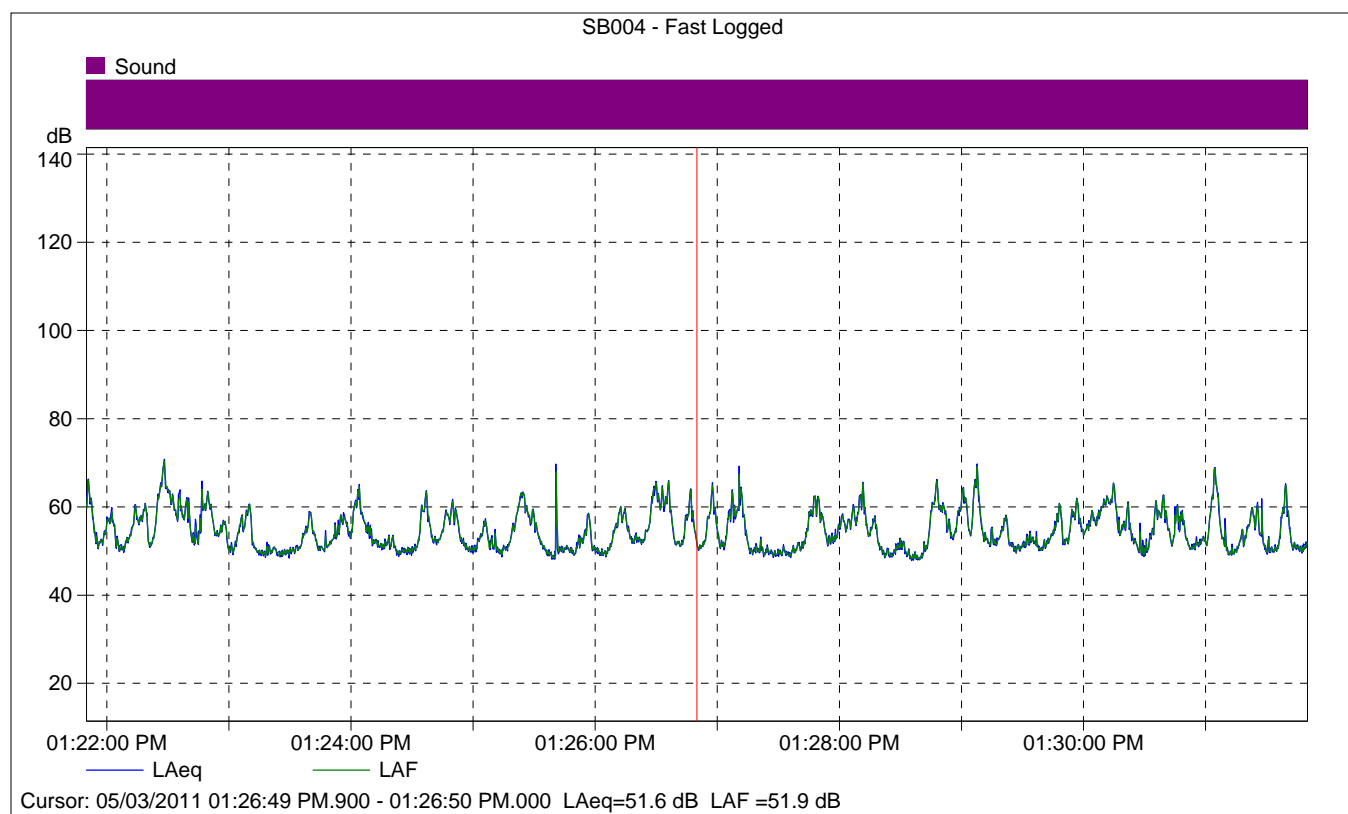




## SB004 Periodic reports

	Start time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	58.6	70.6	48.0
Time	01:21:50 PM	0:10:00				
Date	05/03/2011					





## SB004 - Fast Logged

	Start time	Elapsed time	LAeq [dB]
Value			51.6
Time	01:26:49 PM.900	0:00:00.100	
Date	05/03/2011		



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

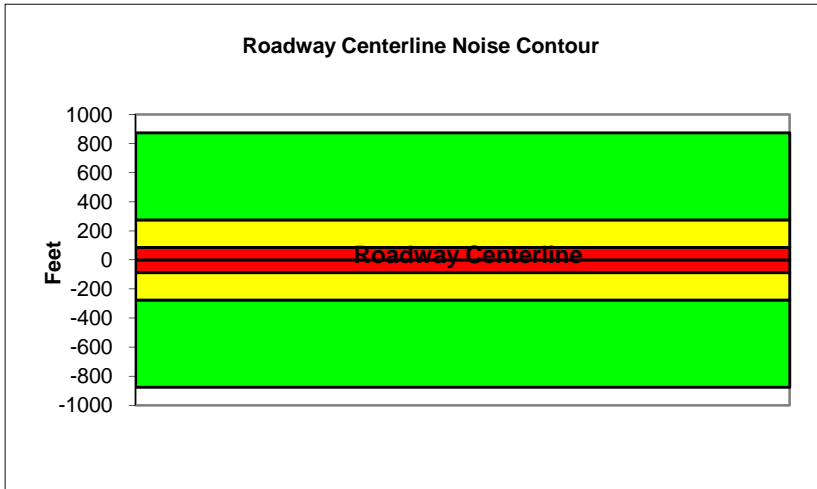
Project Name: DWP Specific Plan Amendment Project      Scenario: Existing  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: North of 1st St.

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	37345				
Receiver Barrier Dist:	0		Peak Hour Traffic:	3734.5				
Centerline Dist. To Observer:	100		Vehicle Speed:	40				
Barrier Near Lane CL Dist:	0		Centerline Separation:	40				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View:	-90	Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	57.1	65.9	64.1	58.1	66.7	67.3
Medium Trucks:	66.1	58.0	51.6	50.1	58.6	58.8
Heavy Trucks:	70.9	59.0	50.0	51.2	60.9	61.0
<b>Vehicle Noise:</b>	<b>73.3</b>	<b>67.5</b>	<b>64.6</b>	<b>59.6</b>	<b>68.2</b>	<b>68.7</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	875
65 dBA	277
70 dBA	88
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

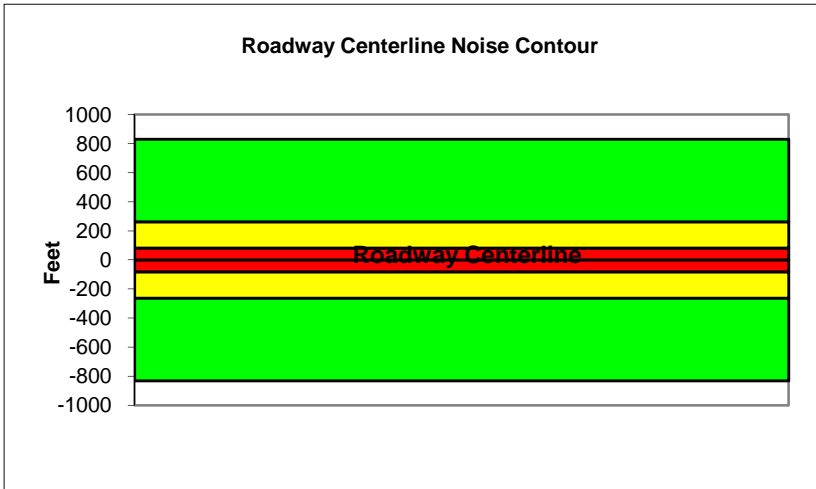
Project Name: DWP Specific Plan Amendment Project      Scenario: Existing  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: South of 1st St.

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	35495			
Receiver Barrier Dist:	0	Peak Hour Traffic:	3549.5			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	43			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	56.9	65.7	63.9	57.8	66.4	67.0
Medium Trucks:	65.8	57.8	51.4	49.8	58.3	58.5
Heavy Trucks:	70.7	58.7	49.7	50.9	60.6	60.7
<b>Vehicle Noise:</b>	<b>73.1</b>	<b>67.2</b>	<b>64.3</b>	<b>59.4</b>	<b>67.9</b>	<b>68.4</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	831
65 dBA	263
70 dBA	83
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

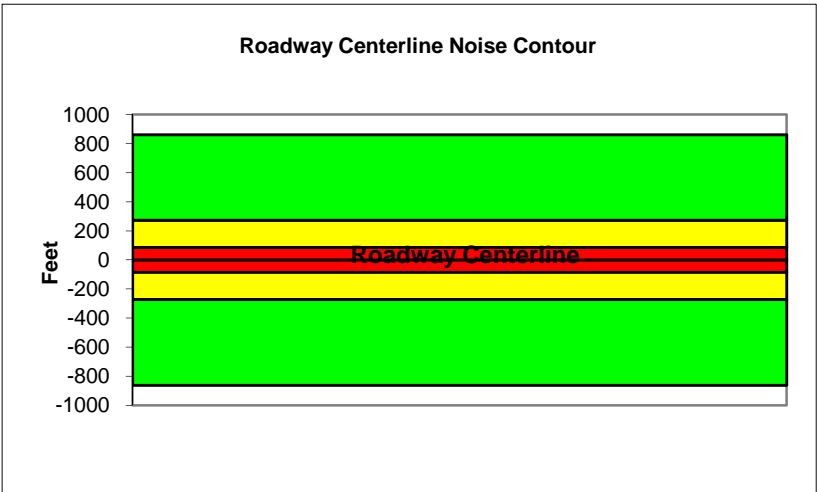
Project Name: DWP Specific Plan Amendment Project      Scenario: Existing  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: Between Marina Drive and Main Street/Bolsa Avenue

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	36835			
Receiver Barrier Dist:	0	Peak Hour Traffic:	3683.5			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	43			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions <b>HARD SITE</b>				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	57.0	65.8	64.0	57.9	66.6	67.2
Medium Trucks:	66.0	57.9	51.5	50.0	58.5	58.7
Heavy Trucks:	70.8	58.9	49.8	51.1	60.8	60.9
<b>Vehicle Noise:</b>	<b>73.2</b>	<b>67.4</b>	<b>64.5</b>	<b>59.5</b>	<b>68.1</b>	<b>68.6</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	862
65 dBA	273
70 dBA	86
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

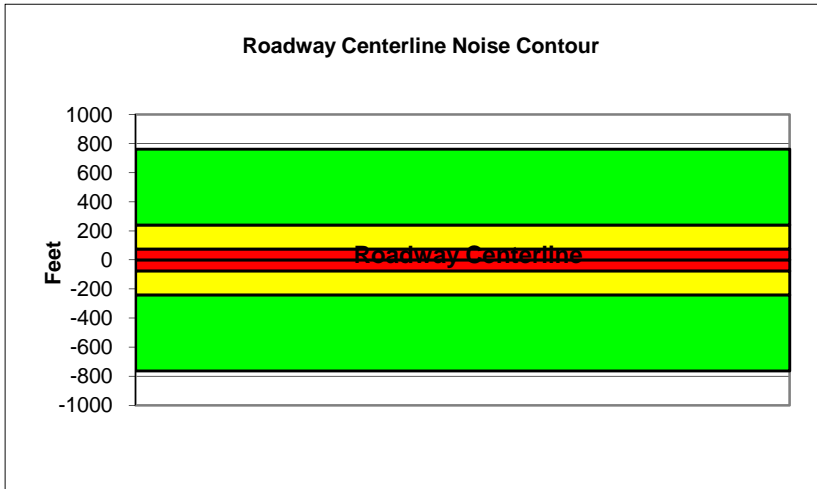
Project Name: DWP Specific Plan Amendment Project      Scenario: Existing  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: South of Main Street/Bolsa Avenue

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	32500				
Receiver Barrier Dist:	0		Peak Hour Traffic:	3250				
Centerline Dist. To Observer:	100		Vehicle Speed:	40				
Barrier Near Lane CL Dist:	0		Centerline Separation:	42				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	56.5	65.3	63.5	57.4	66.1	66.7
Medium Trucks:	65.5	57.4	51.0	49.4	57.9	58.2
Heavy Trucks:	70.3	58.4	49.3	50.5	60.3	60.4
Vehicle Noise:	72.7	66.9	64.0	59.0	67.6	68.1

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	762
65 dBA	241
70 dBA	76
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

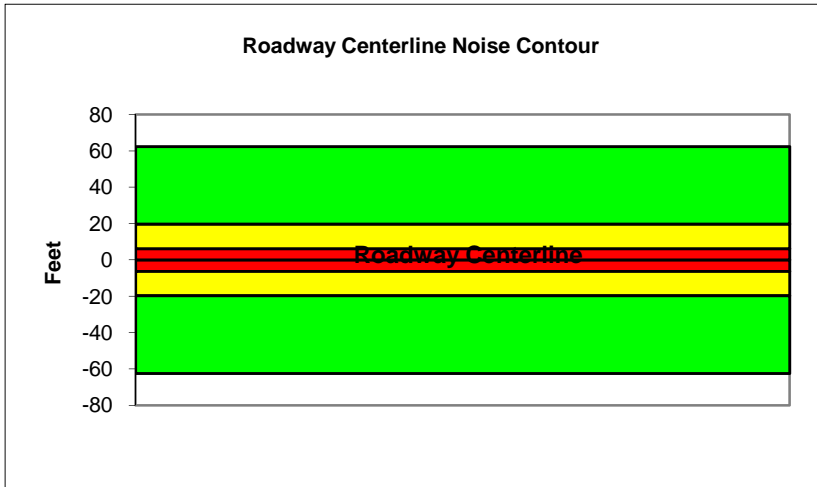
Project Name: DWP Specific Plan Amendment Project      Scenario: Existing  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: Bolsa Avenue  
Road Segment: East of PCH

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	5054				
Receiver Barrier Dist:	0		Peak Hour Traffic:	505.4				
Centerline Dist. To Observer:	100		Vehicle Speed:	30				
Barrier Near Lane CL Dist:	0		Centerline Separation:	12				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions HARD SITE					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View:	-90	Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	45.3	54.1	52.3	46.3	54.9	55.5
Medium Trucks:	55.9	47.9	41.5	39.9	48.4	48.6
Heavy Trucks:	61.6	49.7	40.6	41.8	51.9	52.1
<b>Vehicle Noise:</b>	<b>64.1</b>	<b>56.6</b>	<b>53.1</b>	<b>48.7</b>	<b>57.3</b>	<b>57.7</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	62
65 dBA	20
70 dBA	6
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

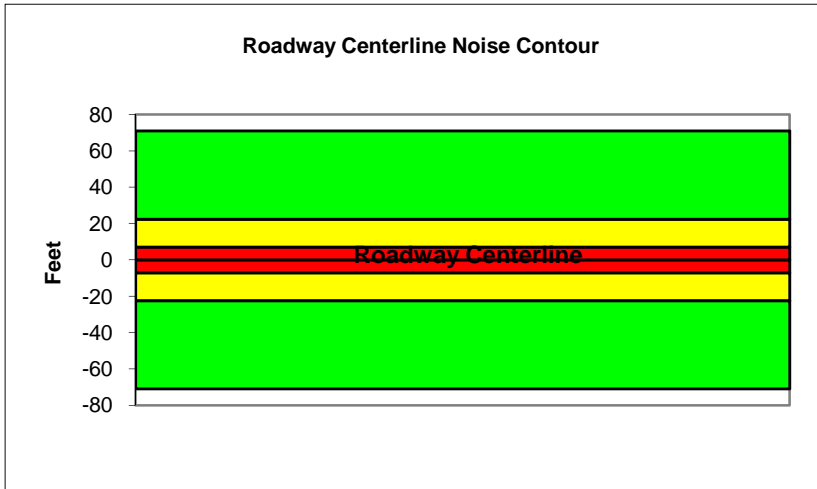
Project Name:	DWP Specific Plan Amendment Project	Scenario:	Existing
Analyst:	Kelly Chiene	Job #:	10-107353
Roadway:	1st Street		
Road Segment:	North of Marina Drive		

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	3030				
Receiver Barrier Dist:	0		Peak Hour Traffic:	303				
Centerline Dist. To Observer:	100		Vehicle Speed:	40				
Barrier Near Lane CL Dist:	0		Centerline Separation:	40				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	46.2	55.0	53.2	47.1	55.8	56.4
Medium Trucks:	55.2	47.1	40.7	39.2	47.7	47.9
Heavy Trucks:	60.0	48.1	39.0	40.3	50.0	50.1
Vehicle Noise:	62.4	56.6	53.7	48.7	57.3	57.8

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	71
65 dBA	22
70 dBA	7
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

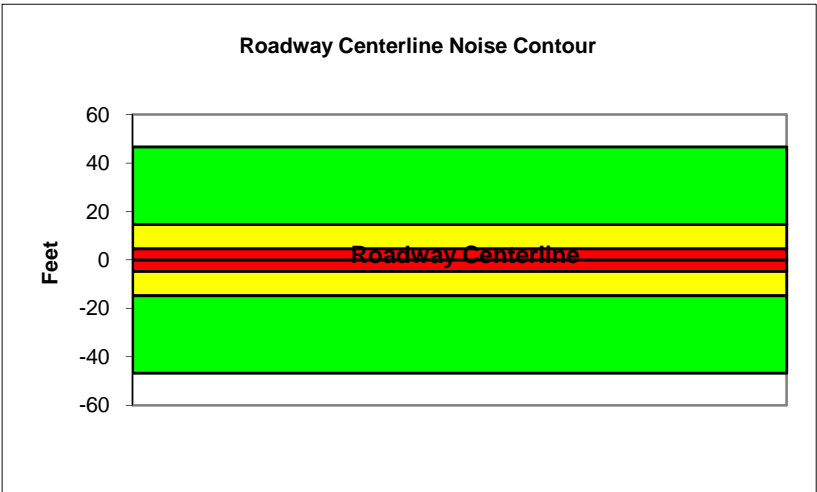
Project Name: DWP Specific Plan Amendment Project      Scenario: Existing  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: 1st Street  
Road Segment: South of Marina Drive

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	3784			
Receiver Barrier Dist:	0	Peak Hour Traffic:	378.4			
Centerline Dist. To Observer:	100	Vehicle Speed:	30			
Barrier Near Lane CL Dist:	0	Centerline Separation:	16.5			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions <b>HARD SITE</b>				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	44.0	52.8	51.0	44.9	53.6	54.2
Medium Trucks:	54.6	46.5	40.2	38.6	47.1	47.3
Heavy Trucks:	60.3	48.3	39.3	40.5	50.6	50.7
Vehicle Noise:	62.8	55.3	51.7	47.4	55.9	56.4

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	47
65 dBA	15
70 dBA	5
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

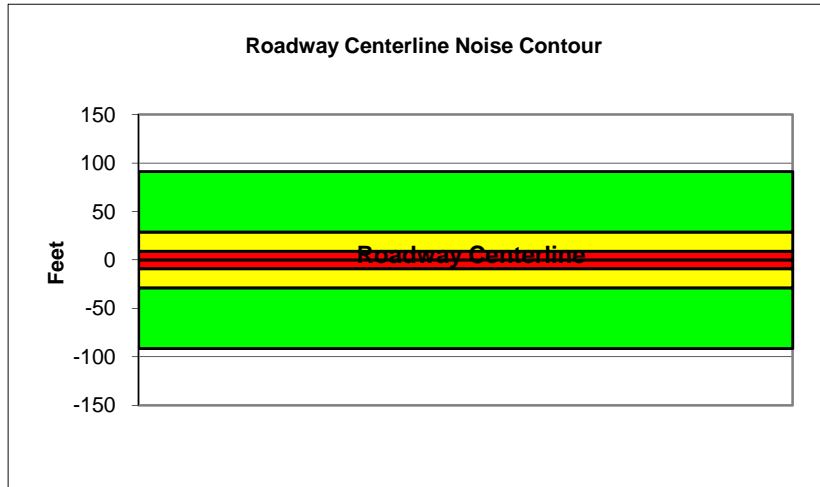
Project Name: DWP Specific Plan Amendment Project      Scenario: Existing  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: Marina Drive  
Road Segment: West of 1st Street

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	5297				
Receiver Barrier Dist:	0		Peak Hour Traffic:	529.7				
Centerline Dist. To Observer:	100		Vehicle Speed:	35				
Barrier Near Lane CL Dist:	0		Centerline Separation:	31				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View:	-90	Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	47.1	55.9	54.1	48.0	56.7	57.3
Medium Trucks:	56.9	48.8	42.4	40.8	49.3	49.6
Heavy Trucks:	62.1	50.1	41.1	42.3	52.2	52.3
<b>Vehicle Noise:</b>	<b>64.5</b>	<b>57.9</b>	<b>54.7</b>	<b>50.0</b>	<b>58.6</b>	<b>59.0</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	91
65 dBA	29
70 dBA	9
Mitigated	
60 dBA	
65 dBA	
70 dBA	





**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

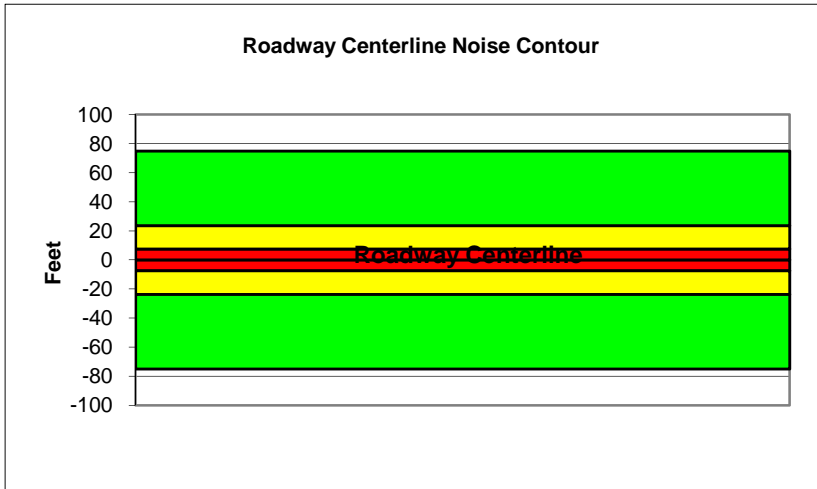
Project Name: DWP Specific Plan Amendment Project      Scenario: Existing  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: Marina Drive  
Road Segment: West of 1st Street

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	4342				
Receiver Barrier Dist:	0		Peak Hour Traffic:	434.2				
Centerline Dist. To Observer:	100		Vehicle Speed:	35				
Barrier Near Lane CL Dist:	0		Centerline Separation:	11.5				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View:	-90	Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	46.6	55.4	53.6	47.5	56.2	56.8
Medium Trucks:	56.3	48.3	41.9	40.3	48.8	49.0
Heavy Trucks:	61.6	49.6	40.6	41.8	51.7	51.8
Vehicle Noise:	64.0	57.4	54.2	49.5	58.1	58.5

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	75
65 dBA	24
70 dBA	7
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

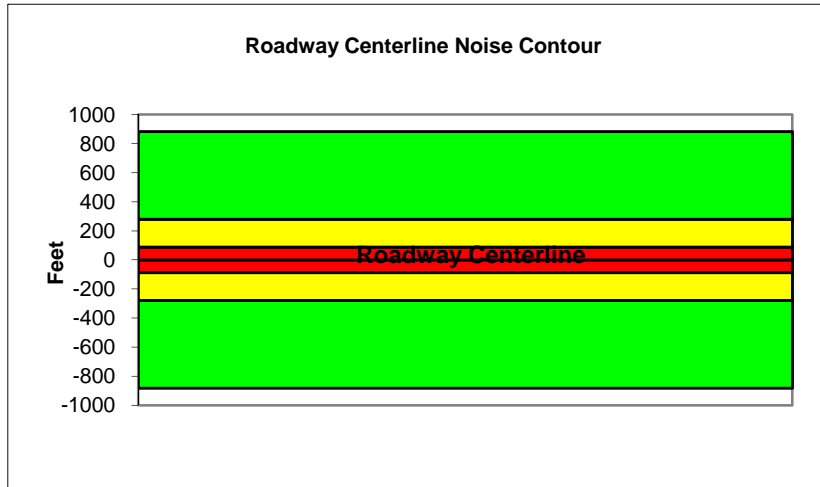
Project Name: DWP Specific Plan Amendment Project      Scenario: Existing Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: North of 1st St.

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	37654				
Receiver Barrier Dist:	0		Peak Hour Traffic:	3765.4				
Centerline Dist. To Observer:	100		Vehicle Speed:	40				
Barrier Near Lane CL Dist:	0		Centerline Separation:	40				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View:	-90	Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	57.2	66.0	64.2	58.1	66.7	67.3
Medium Trucks:	66.1	58.1	51.7	50.1	58.6	58.8
Heavy Trucks:	71.0	59.0	50.0	51.2	60.9	61.0
Vehicle Noise:	73.4	67.5	64.6	59.7	68.2	68.7

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	883
65 dBA	279
70 dBA	88
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

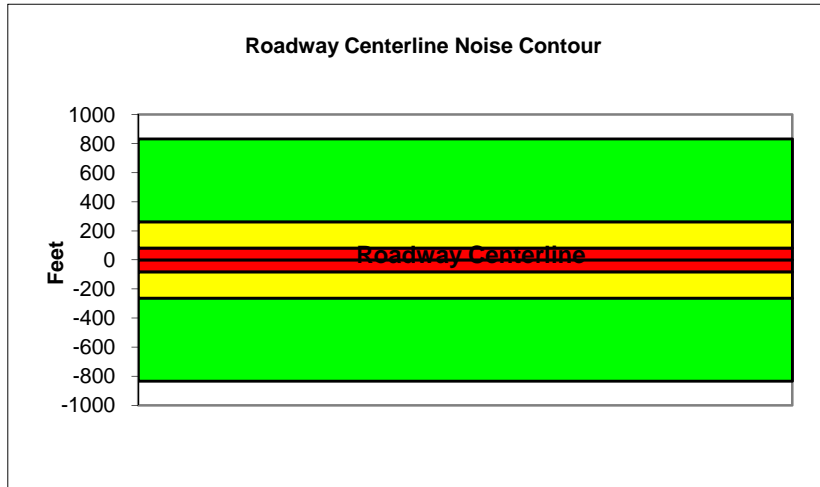
Project Name: DWP Specific Plan Amendment Project      Scenario: Existing Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: South of 1st St.

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	35551			
Receiver Barrier Dist:	0	Peak Hour Traffic:	3555.1			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	43			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	56.9	65.7	63.9	57.8	66.4	67.1
Medium Trucks:	65.8	57.8	51.4	49.8	58.3	58.5
Heavy Trucks:	70.7	58.7	49.7	50.9	60.6	60.8
<b>Vehicle Noise:</b>	<b>73.1</b>	<b>67.2</b>	<b>64.3</b>	<b>59.4</b>	<b>68.0</b>	<b>68.4</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	833
65 dBA	263
70 dBA	83
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

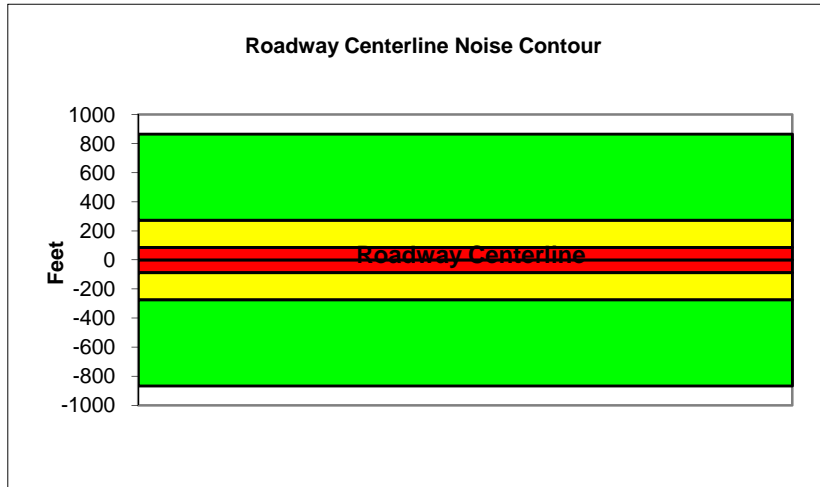
Project Name: DWP Specific Plan Amendment Project      Scenario: Existing Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: Between Marina Drive and Main Street/Bolsa Avenue

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	37004				
Receiver Barrier Dist:	0		Peak Hour Traffic:	3700.4				
Centerline Dist. To Observer:	100		Vehicle Speed:	40				
Barrier Near Lane CL Dist:	0		Centerline Separation:	43				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	57.1	65.8	64.1	58.0	66.6	67.2
Medium Trucks:	66.0	57.9	51.6	50.0	58.5	58.7
Heavy Trucks:	70.9	58.9	49.9	51.1	60.8	60.9
Vehicle Noise:	73.2	67.4	64.5	59.5	68.1	68.6

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	866
65 dBA	274
70 dBA	87
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

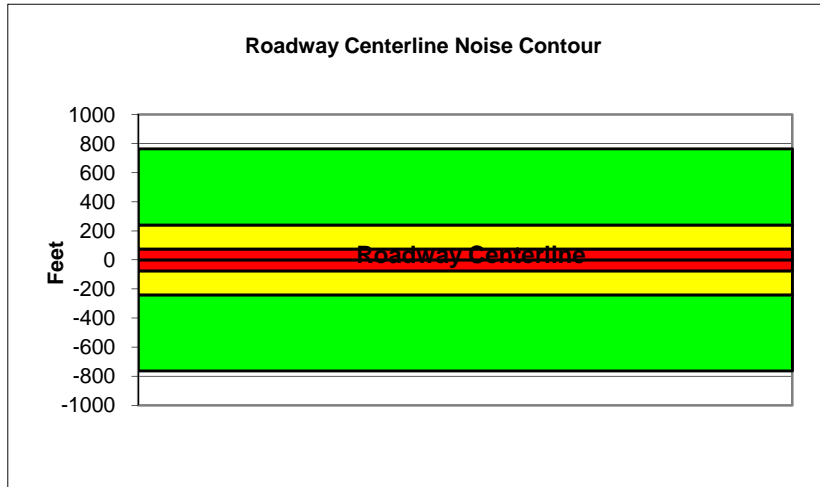
Project Name: DWP Specific Plan Amendment Project      Scenario: Existing Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: South of Main Street/Bolsa Avenue

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	32626				
Receiver Barrier Dist:	0		Peak Hour Traffic:	3262.6				
Centerline Dist. To Observer:	100		Vehicle Speed:	40				
Barrier Near Lane CL Dist:	0		Centerline Separation:	42				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions HARD SITE					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	56.5	65.3	63.5	57.4	66.1	66.7
Medium Trucks:	65.5	57.4	51.0	49.5	57.9	58.2
Heavy Trucks:	70.3	58.4	49.3	50.6	60.3	60.4
Vehicle Noise:	72.7	66.9	64.0	59.0	67.6	68.1

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	764
65 dBA	242
70 dBA	76
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

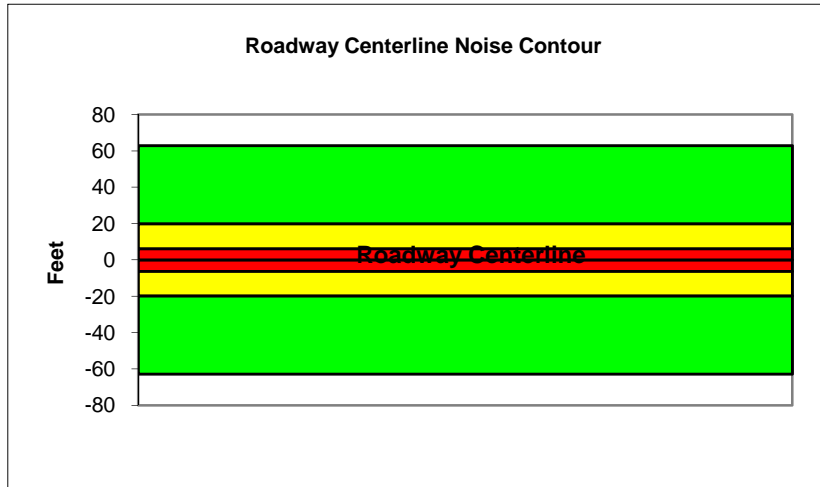
Project Name:	DWP Specific Plan Amendment Project	Scenario:	Existing Plus Project
Analyst:	Kelly Chiene	Job #:	10-107353
Roadway:	Bolsa Avenue		
Road Segment:	East of PCH		

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	5096				
Receiver Barrier Dist:	0		Peak Hour Traffic:	509.6				
Centerline Dist. To Observer:	100		Vehicle Speed:	30				
Barrier Near Lane CL Dist:	0		Centerline Separation:	12				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions HARD SITE					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	45.4	54.2	52.4	46.3	54.9	55.5
Medium Trucks:	56.0	47.9	41.5	40.0	48.4	48.7
Heavy Trucks:	61.6	49.7	40.6	41.9	52.0	52.1
<b>Vehicle Noise:</b>	<b>64.2</b>	<b>56.6</b>	<b>53.1</b>	<b>48.8</b>	<b>57.3</b>	<b>57.7</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	63
65 dBA	20
70 dBA	6
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

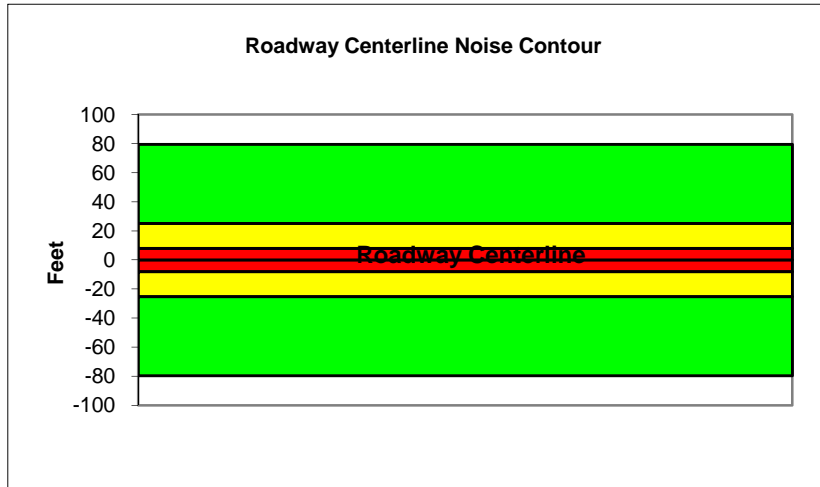
Project Name:	DWP Specific Plan Amendment Project	Scenario:	Existing Plus Project
Analyst:	Kelly Chiene	Job #:	10-107353
Roadway:	1st Street		
Road Segment:	North of Marina Drive		

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	3395				
Receiver Barrier Dist:	0		Peak Hour Traffic:	339.5				
Centerline Dist. To Observer:	100		Vehicle Speed:	40				
Barrier Near Lane CL Dist:	0		Centerline Separation:	40				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	46.7	55.5	53.7	47.6	56.3	56.9
Medium Trucks:	55.7	47.6	41.2	39.7	48.1	48.4
Heavy Trucks:	60.5	48.6	39.5	40.8	50.5	50.6
Vehicle Noise:	62.9	57.1	54.2	49.2	57.8	58.3

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	80
65 dBA	25
70 dBA	8
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

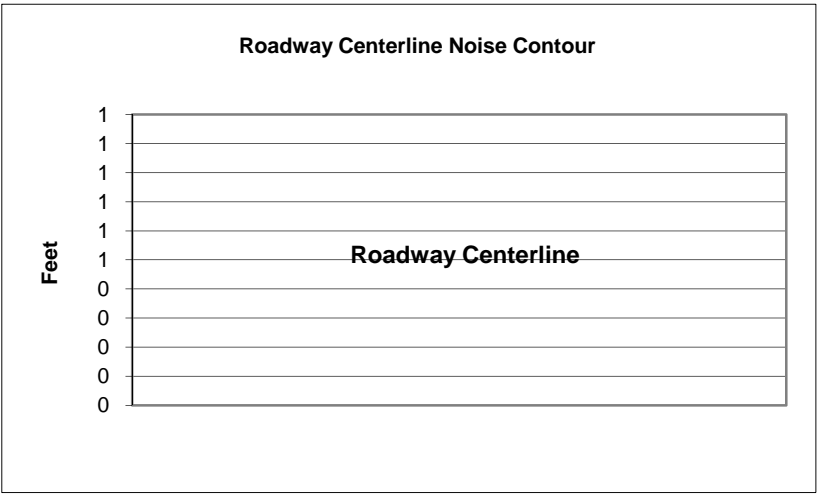
Project Name:	DWP Specific Plan Amendment Project	Scenario:	Existing Plus Project
Analyst:	Kelly Chiene	Job #:	10-107353
Roadway:	1st Street		
Road Segment:	South of Marina Drive		

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	p				
Receiver Barrier Dist:	0		Peak Hour Traffic:	#VALUE!				
Centerline Dist. To Observer:	100		Vehicle Speed:	30				
Barrier Near Lane CL Dist:	0		Centerline Separation:	16.5				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions HARD SITE					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Medium Trucks:	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Heavy Trucks:	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Vehicle Noise:	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	#VALUE!
65 dBA	#VALUE!
70 dBA	#VALUE!
Mitigated	
60 dBA	
65 dBA	
70 dBA	





**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

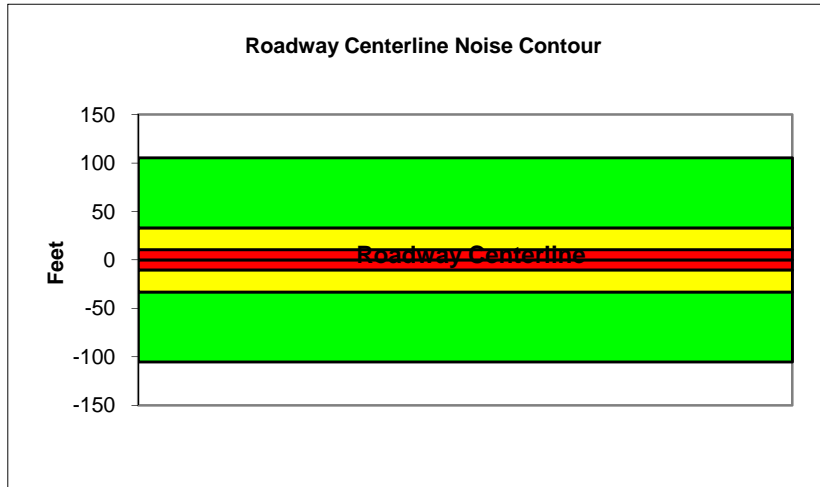
Project Name: DWP Specific Plan Amendment Project      Scenario: Existing Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: Marina Drive  
Road Segment: West of 1st Street

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	6117				
Receiver Barrier Dist:	0		Peak Hour Traffic:	611.7				
Centerline Dist. To Observer:	100		Vehicle Speed:	35				
Barrier Near Lane CL Dist:	0		Centerline Separation:	31				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	47.8	56.5	54.8	48.7	57.3	57.9
Medium Trucks:	57.5	49.4	43.0	41.5	49.9	50.2
Heavy Trucks:	62.7	50.8	41.7	42.9	52.8	53.0
Vehicle Noise:	65.1	58.5	55.3	50.6	59.2	59.6

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	105
65 dBA	33
70 dBA	11
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

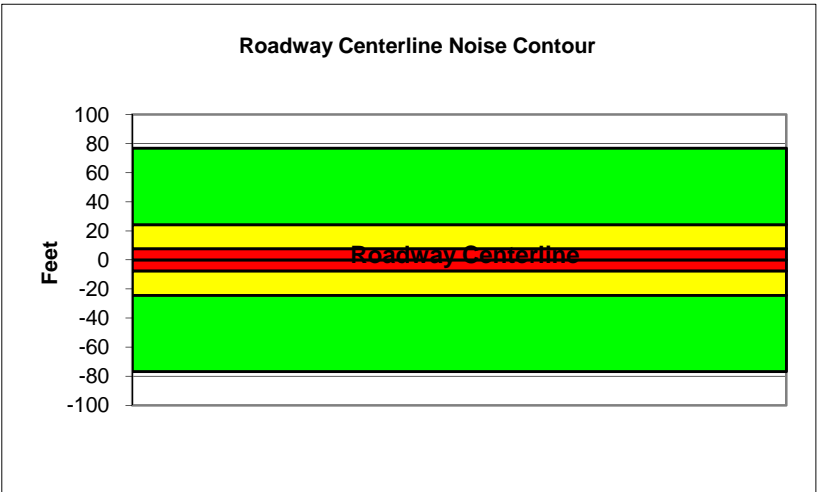
Project Name:	DWP Specific Plan Amendment Project	Scenario:	Existing Plus Project
Analyst:	Kelly Chiene	Job #:	10-107353
Roadway:	Marina Drive		
Road Segment:	East of 1st Street		

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	4454				
Receiver Barrier Dist:	0		Peak Hour Traffic:	445.4				
Centerline Dist. To Observer:	100		Vehicle Speed:	35				
Barrier Near Lane CL Dist:	0		Centerline Separation:	11.5				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	46.7	55.5	53.7	47.6	56.3	56.9
Medium Trucks:	56.5	48.4	42.0	40.4	48.9	49.2
Heavy Trucks:	61.7	49.7	40.7	41.9	51.8	51.9
Vehicle Noise:	64.1	57.5	54.3	49.6	58.2	58.6

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	77
65 dBA	24
70 dBA	8
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

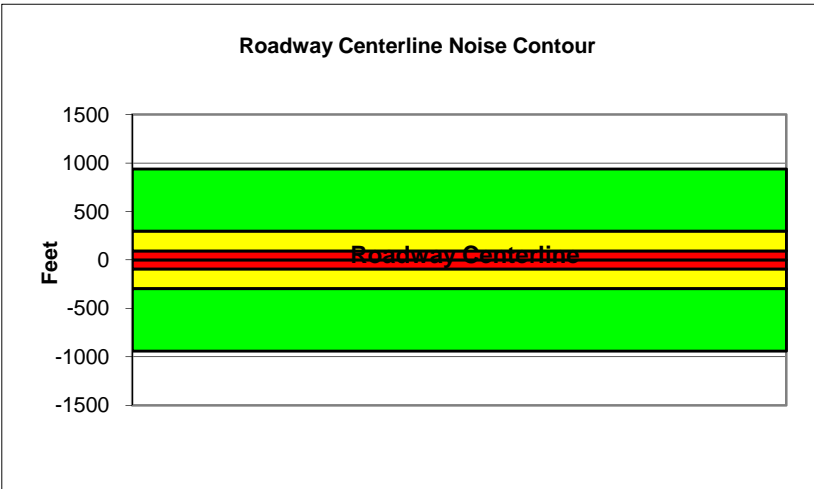
Project Name: DWP Specific Plan Amendment Project      Scenario: Near Term  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: North of 1st St.

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	40110				
Receiver Barrier Dist:	0		Peak Hour Traffic:	4011				
Centerline Dist. To Observer:	100		Vehicle Speed:	40				
Barrier Near Lane CL Dist:	0		Centerline Separation:	40				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View:	-90	Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	57.5	66.2	64.4	58.4	67.0	67.6
Medium Trucks:	66.4	58.3	52.0	50.4	58.9	59.1
Heavy Trucks:	71.3	59.3	50.3	51.5	61.2	61.3
Vehicle Noise:	73.6	67.8	64.9	59.9	68.5	69.0

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	940
65 dBA	297
70 dBA	94
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

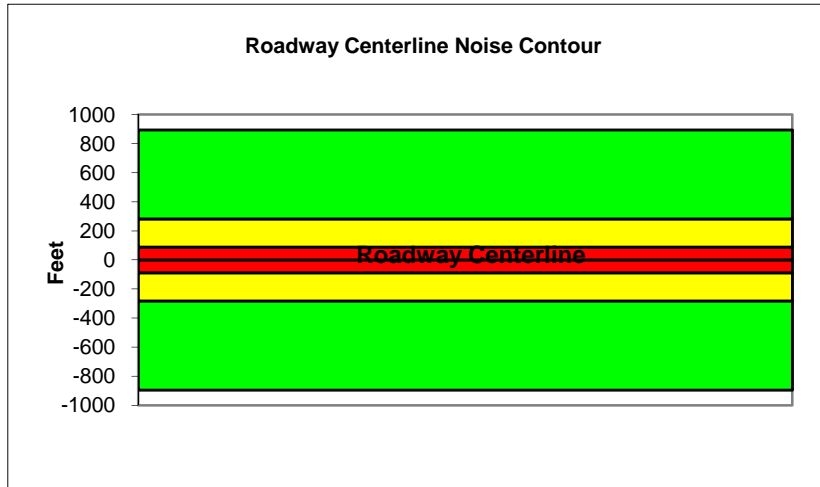
Project Name:	DWP Specific Plan Amendment Project	Scenario:	Near Term
Analyst:	Kelly Chiene	Job #:	10-107353
Roadway:	PCH		
Road Segment:	South of 1st St.		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	38201			
Receiver Barrier Dist:	0	Peak Hour Traffic:	3820.1			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	43			
Barrier Far lane CL Dist:	0	<b>NOISE INPUTS</b>				
Pad Elevation:	0.5	Site conditions <b>HARD SITE</b>				
Road Elevation:	0	<b>FLEET MIX</b>				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: <b>90</b>	Lft View: <b>-90</b>	Med. Truck	0.848	0.049	0.103	0.0184
<b>NOISE SOURCE ELEVATIONS (Feet)</b>		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	57.2	66.0	64.2	58.1	66.8	67.4
Medium Trucks:	66.2	58.1	51.7	50.1	58.6	58.8
Heavy Trucks:	71.0	59.1	50.0	51.2	60.9	61.1
<b>Vehicle Noise:</b>	<b>73.4</b>	<b>67.6</b>	<b>64.6</b>	<b>59.7</b>	<b>68.3</b>	<b>68.7</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	895
65 dBA	283
70 dBA	89
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

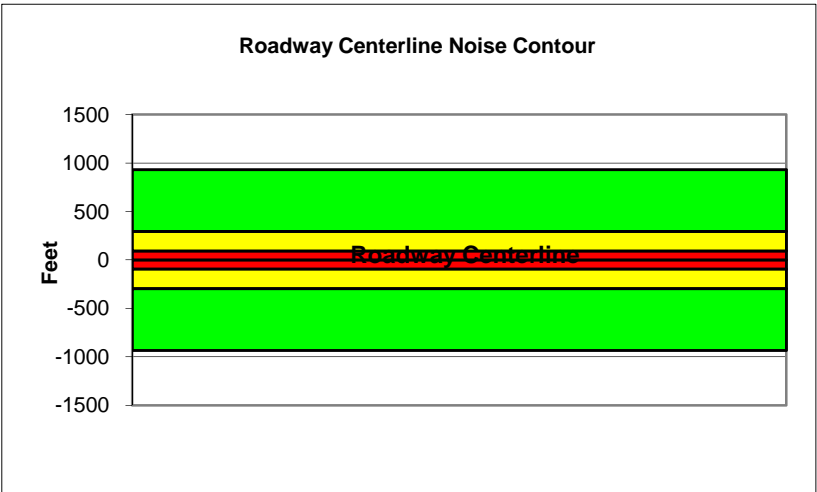
Project Name: DWP Specific Plan Amendment Project      Scenario: Near Term  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: Between Marina Drive and Main Street/Bolsa Avenue

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	39813				
Receiver Barrier Dist:	0		Peak Hour Traffic:	3981.3				
Centerline Dist. To Observer:	100		Vehicle Speed:	40				
Barrier Near Lane CL Dist:	0		Centerline Separation:	43				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	57.4	66.2	64.4	58.3	66.9	67.5
Medium Trucks:	66.3	58.3	51.9	50.3	58.8	59.0
Heavy Trucks:	71.2	59.2	50.2	51.4	61.1	61.2
Vehicle Noise:	73.6	67.7	64.8	59.9	68.4	68.9

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	933
65 dBA	295
70 dBA	93
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

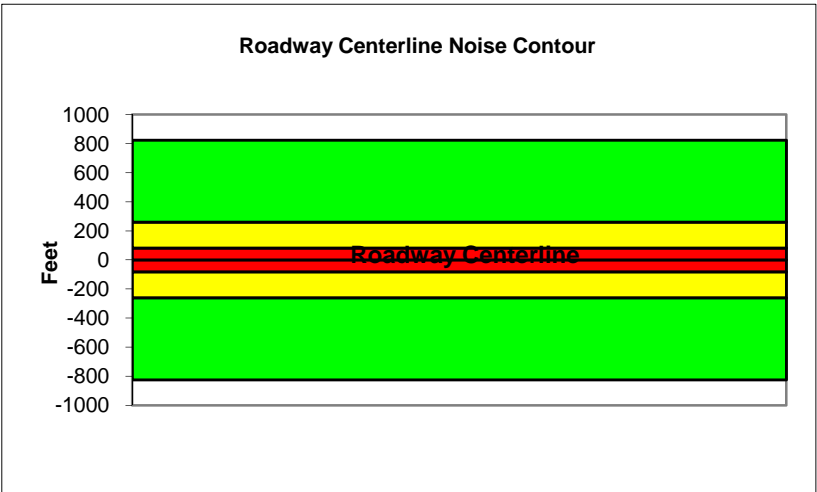
Project Name: DWP Specific Plan Amendment Project      Scenario: Near Term  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: South of Main Street/Bolsa Avenue

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	35176			
Receiver Barrier Dist:	0	Peak Hour Traffic:	3517.6			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	42			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	56.9	65.6	63.8	57.8	66.4	67.0
Medium Trucks:	65.8	57.7	51.4	49.8	58.3	58.5
Heavy Trucks:	70.7	58.7	49.7	50.9	60.6	60.7
<b>Vehicle Noise:</b>	<b>73.0</b>	<b>67.2</b>	<b>64.3</b>	<b>59.3</b>	<b>67.9</b>	<b>68.4</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	824
65 dBA	261
70 dBA	82
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

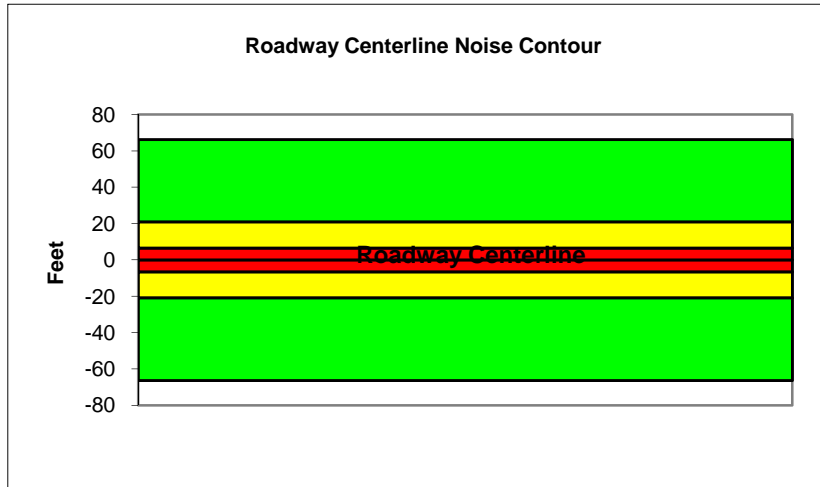
Project Name: DWP Specific Plan Amendment Project      Scenario: Near Term  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: Bolsa Avenue  
Road Segment: East of PCH

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	5366			
Receiver Barrier Dist:	0	Peak Hour Traffic:	536.6			
Centerline Dist. To Observer:	100	Vehicle Speed:	30			
Barrier Near Lane CL Dist:	0	Centerline Separation:	12			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions <b>HARD SITE</b>				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	45.6	54.4	52.6	46.5	55.2	55.8
Medium Trucks:	56.2	48.1	41.8	40.2	48.7	48.9
Heavy Trucks:	61.9	49.9	40.9	42.1	52.2	52.3
<b>Vehicle Noise:</b>	<b>64.4</b>	<b>56.9</b>	<b>53.3</b>	<b>49.0</b>	<b>57.5</b>	<b>58.0</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	66
65 dBA	21
70 dBA	7
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

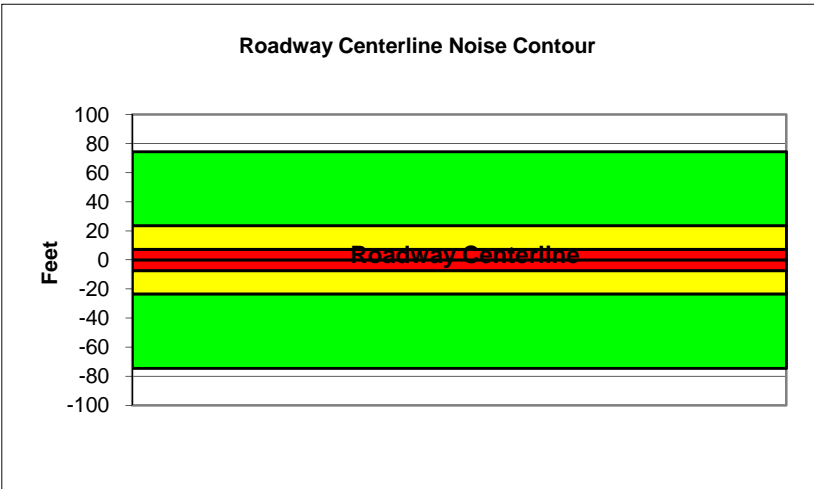
Project Name: DWP Specific Plan Amendment Project      Scenario: Near Term  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: 1st Street  
Road Segment: North of Marina Drive

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	3181			
Receiver Barrier Dist:	0	Peak Hour Traffic:	318.1			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	40			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions <b>HARD SITE</b>				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	46.4	55.2	53.4	47.4	56.0	56.6
Medium Trucks:	55.4	47.3	41.0	39.4	47.9	48.1
Heavy Trucks:	60.2	48.3	39.3	40.5	50.2	50.3
Vehicle Noise:	62.6	56.8	53.9	48.9	57.5	58.0

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	74
65 dBA	24
70 dBA	7
Mitigated	
60 dBA	
65 dBA	
70 dBA	





**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

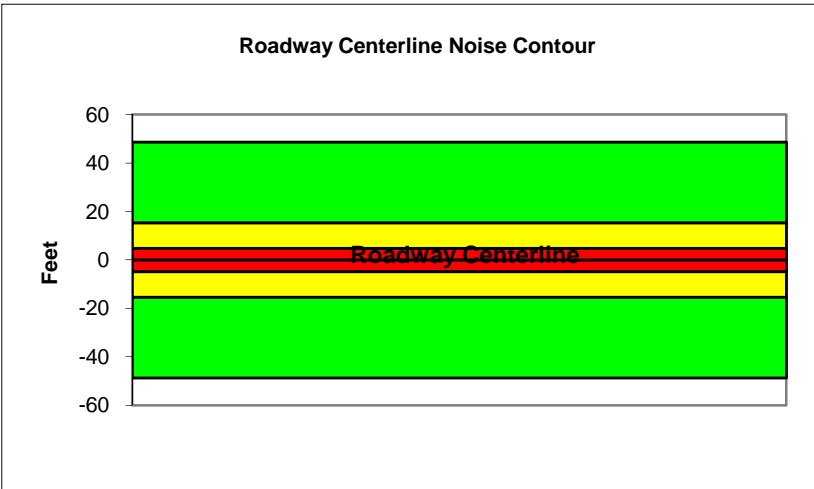
Project Name: DWP Specific Plan Amendment Project      Scenario: Near Term  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: 1st Street  
Road Segment: South of Marina Drive

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	3943			
Receiver Barrier Dist:	0	Peak Hour Traffic:	394.3			
Centerline Dist. To Observer:	100	Vehicle Speed:	30			
Barrier Near Lane CL Dist:	0	Centerline Separation:	16.5			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions <b>HARD SITE</b>				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	44.2	53.0	51.2	45.1	53.7	54.3
Medium Trucks:	54.8	46.7	40.3	38.8	47.2	47.5
Heavy Trucks:	60.4	48.5	39.4	40.7	50.8	50.9
Vehicle Noise:	63.0	55.4	51.9	47.6	56.1	56.5

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	49
65 dBA	15
70 dBA	5
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

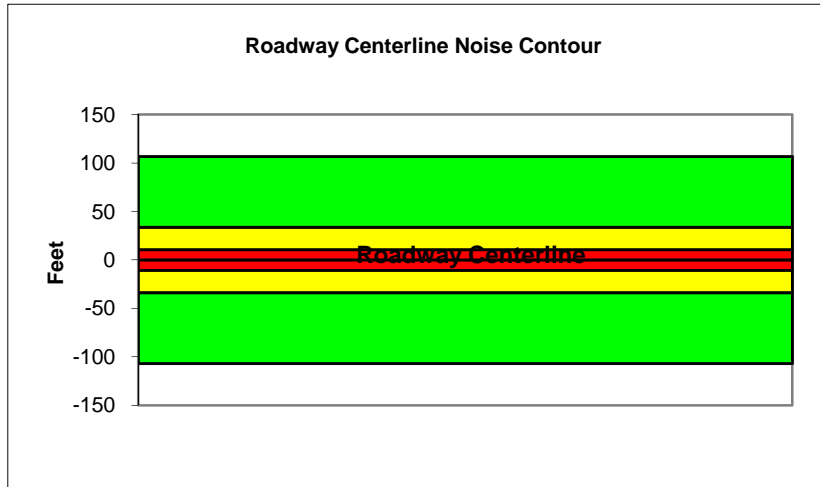
Project Name: DWP Specific Plan Amendment Project      Scenario: Near Term  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: Marina Drive  
Road Segment: West of 1st Street

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	6192				
Receiver Barrier Dist:	0		Peak Hour Traffic:	619.2				
Centerline Dist. To Observer:	100		Vehicle Speed:	35				
Barrier Near Lane CL Dist:	0		Centerline Separation:	31				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	47.8	56.6	54.8	48.7	57.4	58.0
Medium Trucks:	57.5	49.5	43.1	41.5	50.0	50.2
Heavy Trucks:	62.8	50.8	41.8	43.0	52.9	53.0
Vehicle Noise:	65.2	58.6	55.4	50.7	59.2	59.7

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	107
65 dBA	34
70 dBA	11
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

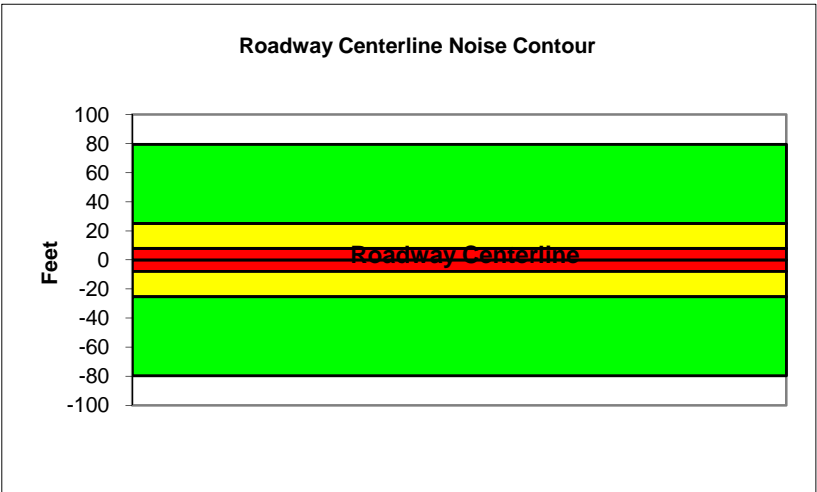
Project Name: DWP Specific Plan Amendment Project      Scenario: Near Term  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: Marina Drive  
Road Segment: East of 1st Street

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	4619			
Receiver Barrier Dist:	0	Peak Hour Traffic:	461.9			
Centerline Dist. To Observer:	100	Vehicle Speed:	35			
Barrier Near Lane CL Dist:	0	Centerline Separation:	11.5			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions <b>HARD SITE</b>				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	46.9	55.7	53.9	47.8	56.5	57.1
Medium Trucks:	56.6	48.5	42.2	40.6	49.1	49.3
Heavy Trucks:	61.8	49.9	40.8	42.1	52.0	52.1
Vehicle Noise:	64.3	57.6	54.4	49.8	58.3	58.8

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	80
65 dBA	25
70 dBA	8
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

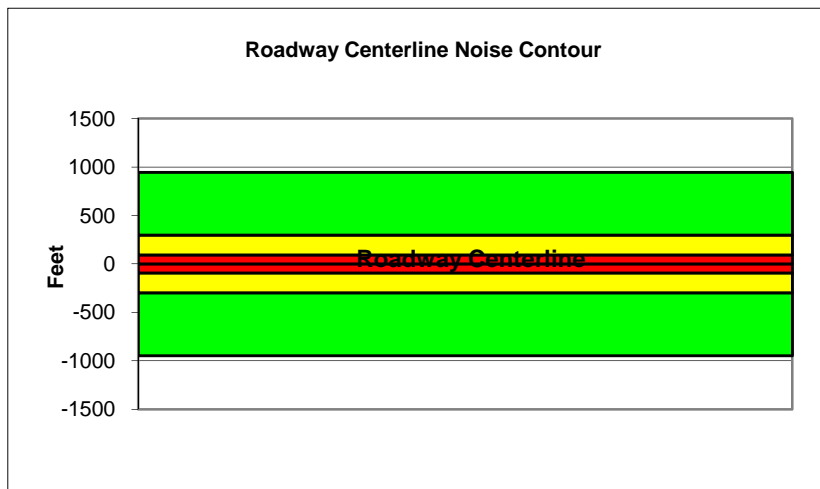
Project Name: DWP Specific Plan Amendment Project      Scenario: Near Term Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: North of 1st St.

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	40419				
Receiver Barrier Dist:	0		Peak Hour Traffic:	4041.9				
Centerline Dist. To Observer:	100		Vehicle Speed:	40				
Barrier Near Lane CL Dist:	0		Centerline Separation:	40				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	57.5	66.3	64.5	58.4	67.0	67.7
Medium Trucks:	66.4	58.4	52.0	50.4	58.9	59.1
Heavy Trucks:	71.3	59.4	50.3	51.5	61.2	61.4
<b>Vehicle Noise:</b>	<b>73.7</b>	<b>67.8</b>	<b>64.9</b>	<b>60.0</b>	<b>68.6</b>	<b>69.0</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	946
65 dBA	299
70 dBA	95
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

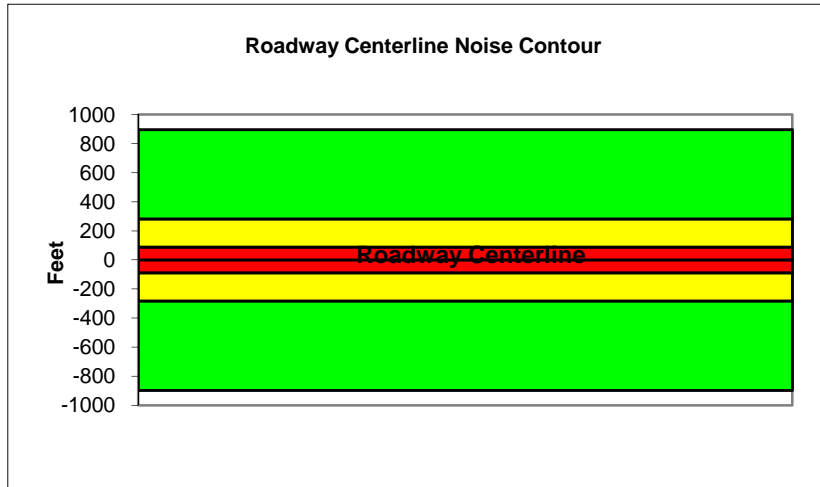
Project Name: DWP Specific Plan Amendment Project      Scenario: Near Term Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: South of 1st St.

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	38257			
Receiver Barrier Dist:	0	Peak Hour Traffic:	3825.7			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	43			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions <b>HARD SITE</b>				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	57.2	66.0	64.2	58.1	66.8	67.4
Medium Trucks:	66.2	58.1	51.7	50.1	58.6	58.9
Heavy Trucks:	71.0	59.1	50.0	51.2	60.9	61.1
<b>Vehicle Noise:</b>	<b>73.4</b>	<b>67.6</b>	<b>64.6</b>	<b>59.7</b>	<b>68.3</b>	<b>68.8</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	897
65 dBA	284
70 dBA	90
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

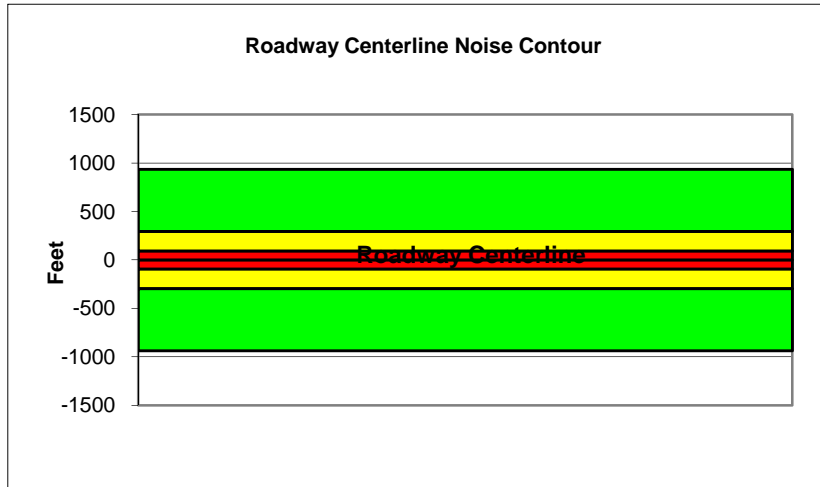
Project Name: DWP Specific Plan Amendment Project      Scenario: Near Term Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: Between Marina Drive and Main Street/Bolsa Avenue

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	39982			
Receiver Barrier Dist:	0	Peak Hour Traffic:	3998.2			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	43			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions <b>HARD SITE</b>				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	57.4	66.2	64.4	58.3	67.0	67.6
Medium Trucks:	66.3	58.3	51.9	50.3	58.8	59.0
Heavy Trucks:	71.2	59.3	50.2	51.4	61.1	61.3
<b>Vehicle Noise:</b>	<b>73.6</b>	<b>67.8</b>	<b>64.8</b>	<b>59.9</b>	<b>68.5</b>	<b>68.9</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	937
65 dBA	296
70 dBA	94
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

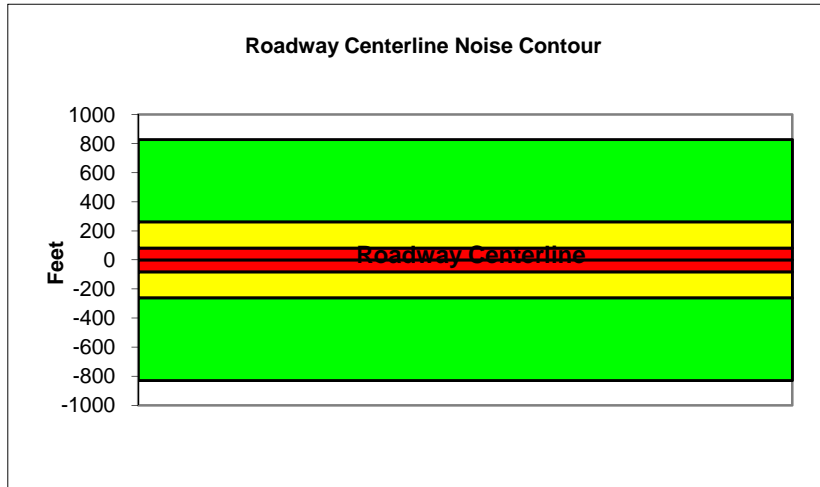
Project Name: DWP Specific Plan Amendment Project      Scenario: Near Term Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: South of Main Street/Bolsa Avenue

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	35302			
Receiver Barrier Dist:	0	Peak Hour Traffic:	3530.2			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	42			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions <b>HARD SITE</b>				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	56.9	65.7	63.9	57.8	66.4	67.0
Medium Trucks:	65.8	57.8	51.4	49.8	58.3	58.5
Heavy Trucks:	70.7	58.7	49.7	50.9	60.6	60.7
<b>Vehicle Noise:</b>	<b>73.0</b>	<b>67.2</b>	<b>64.3</b>	<b>59.4</b>	<b>67.9</b>	<b>68.4</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	828
65 dBA	262
70 dBA	83
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

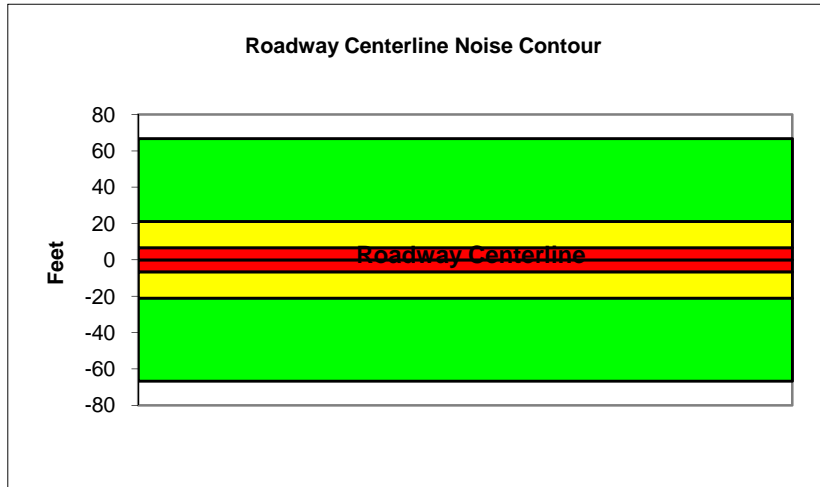
Project Name:	DWP Specific Plan Amendment Project	Scenario:	Near Term Plus Project
Analyst:	Kelly Chiene	Job #:	10-107353
Roadway:	Bolsa Avenue		
Road Segment:	East of PCH		

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	5408				
Receiver Barrier Dist:	0		Peak Hour Traffic:	540.8				
Centerline Dist. To Observer:	100		Vehicle Speed:	30				
Barrier Near Lane CL Dist:	0		Centerline Separation:	12				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	45.6	54.4	52.6	46.5	55.2	55.8
Medium Trucks:	56.2	48.2	41.8	40.2	48.7	48.9
Heavy Trucks:	61.9	50.0	40.9	42.1	52.2	52.4
Vehicle Noise:	64.4	56.9	53.4	49.0	57.6	58.0

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	67
65 dBA	21
70 dBA	7
Mitigated	
60 dBA	
65 dBA	
70 dBA	





**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

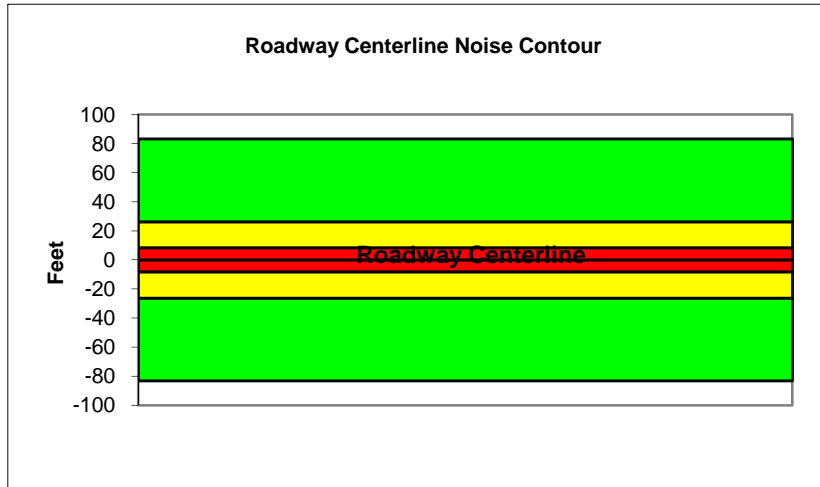
Project Name: DWP Specific Plan Amendment Project      Scenario: Near Term Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: 1st Street  
Road Segment: North of Marina Drive

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	3546				
Receiver Barrier Dist:	0		Peak Hour Traffic:	354.6				
Centerline Dist. To Observer:	100		Vehicle Speed:	40				
Barrier Near Lane CL Dist:	0		Centerline Separation:	40				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	46.9	55.7	53.9	47.8	56.5	57.1
Medium Trucks:	55.9	47.8	41.4	39.9	48.3	48.6
Heavy Trucks:	60.7	48.8	39.7	40.9	50.7	50.8
<b>Vehicle Noise:</b>	<b>63.1</b>	<b>57.3</b>	<b>54.4</b>	<b>49.4</b>	<b>58.0</b>	<b>58.5</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	83
65 dBA	26
70 dBA	8
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

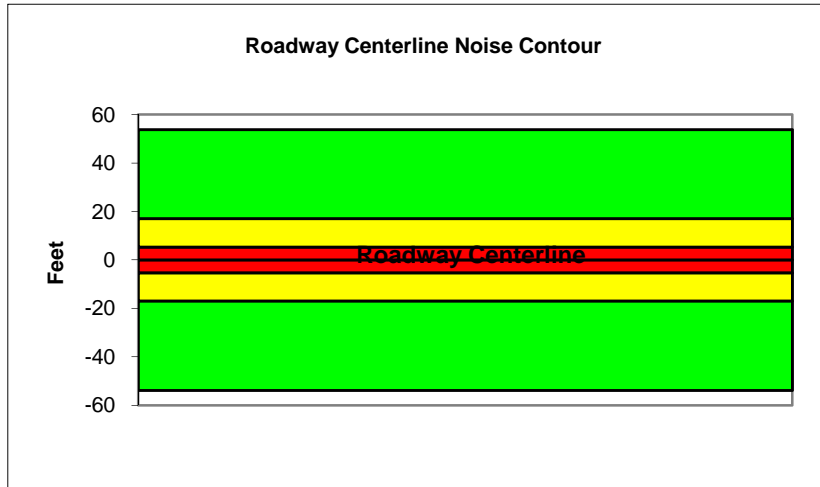
Project Name: DWP Specific Plan Amendment Project      Scenario: Near Term Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: 1st Street  
Road Segment: South of Marina Drive

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	4359				
Receiver Barrier Dist:	0		Peak Hour Traffic:	435.9				
Centerline Dist. To Observer:	100		Vehicle Speed:	30				
Barrier Near Lane CL Dist:	0		Centerline Separation:	16.5				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	44.6	53.4	51.6	45.5	54.2	54.8
Medium Trucks:	55.2	47.2	40.8	39.2	47.7	47.9
Heavy Trucks:	60.9	48.9	39.9	41.1	51.2	51.3
Vehicle Noise:	63.4	55.9	52.3	48.0	56.6	57.0

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	54
65 dBA	17
70 dBA	5
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

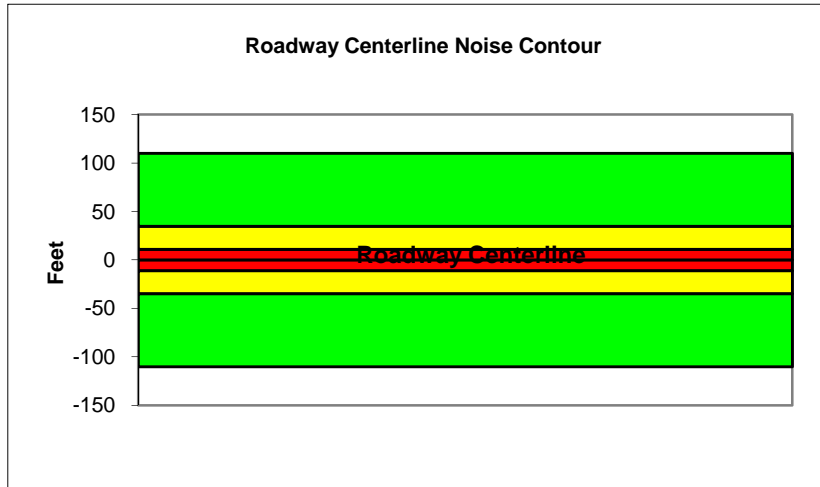
Project Name: DWP Specific Plan Amendment Project      Scenario: Near Term Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: Marina Drive  
Road Segment: West of 1st Street

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	6382				
Receiver Barrier Dist:	0		Peak Hour Traffic:	638.2				
Centerline Dist. To Observer:	100		Vehicle Speed:	35				
Barrier Near Lane CL Dist:	0		Centerline Separation:	31				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	47.9	56.7	54.9	48.9	57.5	58.1
Medium Trucks:	57.7	49.6	43.2	41.6	50.1	50.4
Heavy Trucks:	62.9	50.9	41.9	43.1	53.0	53.1
Vehicle Noise:	65.3	58.7	55.5	50.8	59.4	59.8

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	110
65 dBA	35
70 dBA	11
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

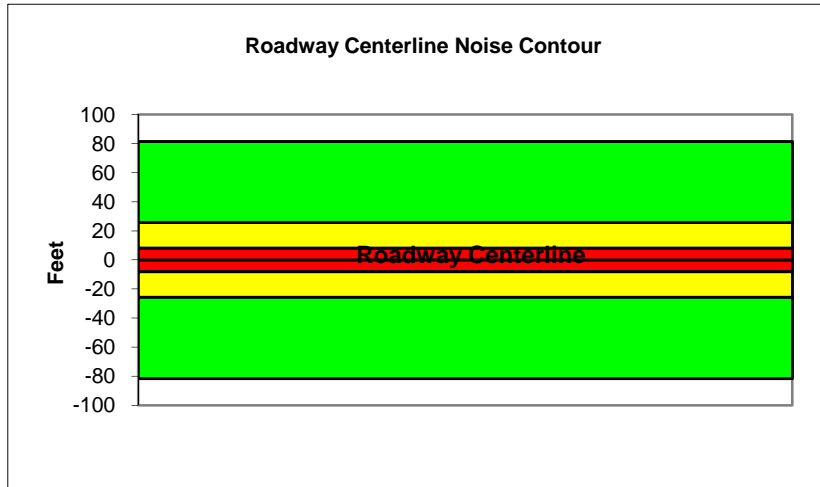
Project Name: DWP Specific Plan Amendment Project      Scenario: Near Term Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: Marina Drive  
Road Segment: East of 1st Street

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	4731				
Receiver Barrier Dist:	0		Peak Hour Traffic:	473.1				
Centerline Dist. To Observer:	100		Vehicle Speed:	35				
Barrier Near Lane CL Dist:	0		Centerline Separation:	11.5				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	47.0	55.8	54.0	47.9	56.6	57.2
Medium Trucks:	56.7	48.6	42.3	40.7	49.2	49.4
Heavy Trucks:	61.9	50.0	40.9	42.2	52.1	52.2
Vehicle Noise:	64.4	57.7	54.5	49.9	58.4	58.9

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	82
65 dBA	26
70 dBA	8
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

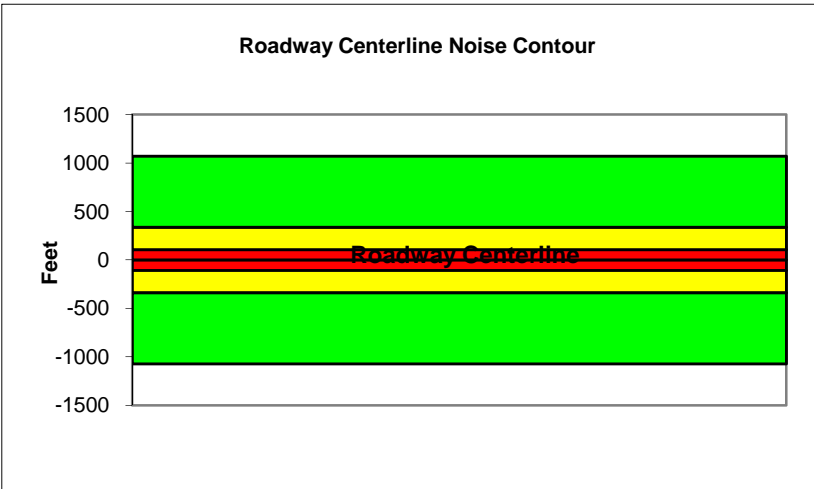
Project Name: DWP Specific Plan Amendment Project      Scenario: Future  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: North of 1st St.

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	45712			
Receiver Barrier Dist:	0	Peak Hour Traffic:	4571.2			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	40			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions <b>HARD SITE</b>				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	58.0	66.8	65.0	58.9	67.6	68.2
Medium Trucks:	67.0	58.9	52.5	51.0	59.4	59.7
Heavy Trucks:	71.8	59.9	50.8	52.1	61.8	61.9
Vehicle Noise:	74.2	68.4	65.5	60.5	69.1	69.6

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	1072
65 dBA	339
70 dBA	107
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

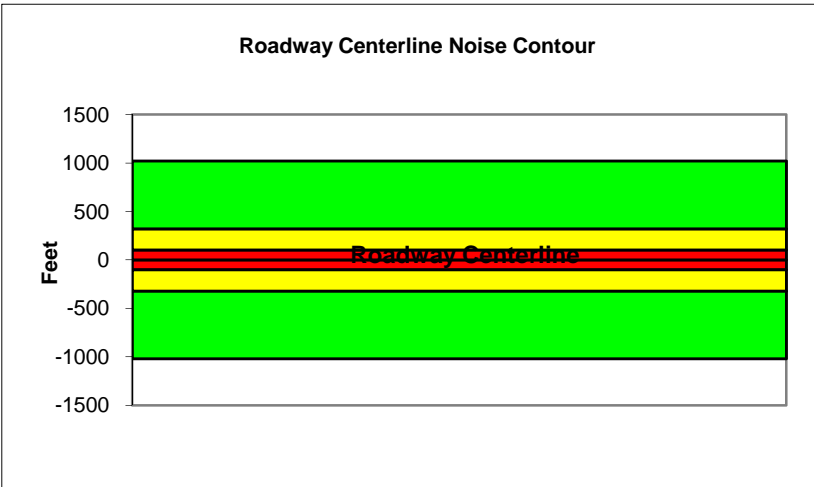
Project Name: DWP Specific Plan Amendment Project      Scenario: Future  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: South of 1st St.

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	43525				
Receiver Barrier Dist:	0		Peak Hour Traffic:	4352.5				
Centerline Dist. To Observer:	100		Vehicle Speed:	40				
Barrier Near Lane CL Dist:	0		Centerline Separation:	43				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions HARD SITE					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	57.8	66.5	64.8	58.7	67.3	67.9
Medium Trucks:	66.7	58.7	52.3	50.7	59.2	59.4
Heavy Trucks:	71.6	59.6	50.6	51.8	61.5	61.6
<b>Vehicle Noise:</b>	<b>73.9</b>	<b>68.1</b>	<b>65.2</b>	<b>60.3</b>	<b>68.8</b>	<b>69.3</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	1020
65 dBA	323
70 dBA	102
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

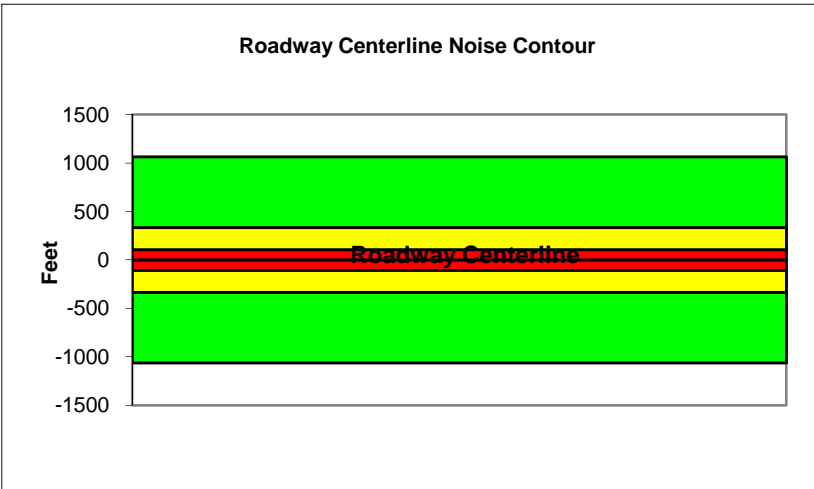
Project Name: DWP Specific Plan Amendment Project      Scenario: Future  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: Between Marina Drive and Main Street/Bolsa Avenue

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	45339				
Receiver Barrier Dist:	0		Peak Hour Traffic:	4533.9				
Centerline Dist. To Observer:	100		Vehicle Speed:	40				
Barrier Near Lane CL Dist:	0		Centerline Separation:	43				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	57.9	66.7	64.9	58.9	67.5	68.1
Medium Trucks:	66.9	58.8	52.4	50.9	59.4	59.6
Heavy Trucks:	71.7	59.8	50.7	52.0	61.7	61.8
<b>Vehicle Noise:</b>	<b>74.1</b>	<b>68.3</b>	<b>65.4</b>	<b>60.4</b>	<b>69.0</b>	<b>69.5</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	1063
65 dBA	336
70 dBA	106
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

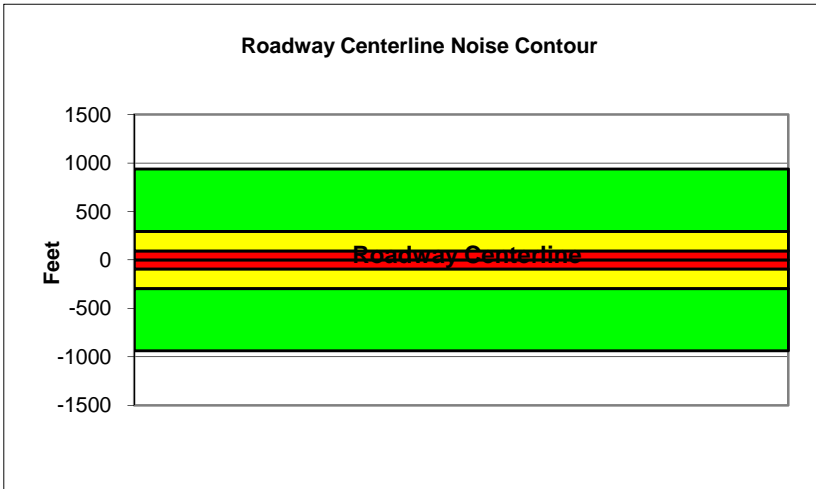
Project Name: DWP Specific Plan Amendment Project      Scenario: Future  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: South of Main Street/Bolsa Avenue

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	40051			
Receiver Barrier Dist:	0	Peak Hour Traffic:	4005.1			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	42			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions <b>HARD SITE</b>				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	57.4	66.2	64.4	58.3	67.0	67.6
Medium Trucks:	66.4	58.3	51.9	50.3	58.8	59.1
Heavy Trucks:	71.2	59.3	50.2	51.4	61.2	61.3
Vehicle Noise:	73.6	67.8	64.9	59.9	68.5	69.0

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	938
65 dBA	297
70 dBA	94
Mitigated	
60 dBA	
65 dBA	
70 dBA	





**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

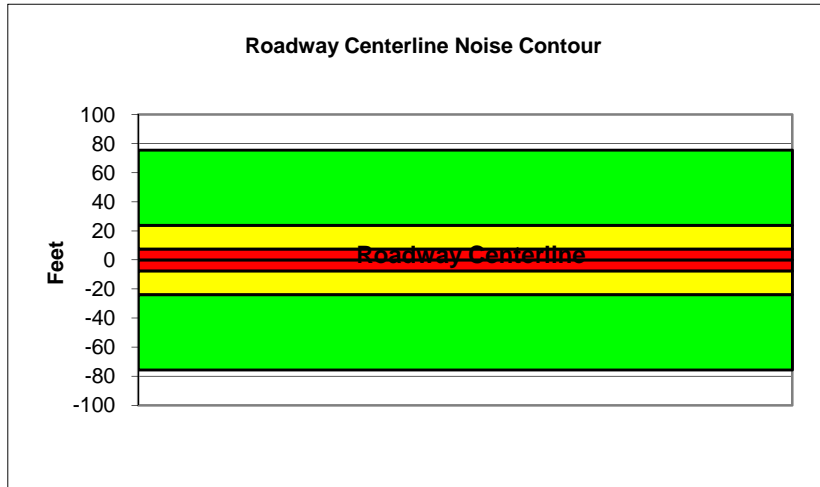
Project Name: DWP Specific Plan Amendment Project      Scenario: Future  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: Bolsa Avenue  
Road Segment: East of PCH

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	6124			
Receiver Barrier Dist:	0	Peak Hour Traffic:	612.4			
Centerline Dist. To Observer:	100	Vehicle Speed:	30			
Barrier Near Lane CL Dist:	0	Centerline Separation:	12			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions <b>HARD SITE</b>				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	46.2	55.0	53.2	47.1	55.7	56.3
Medium Trucks:	56.8	48.7	42.3	40.8	49.2	49.5
Heavy Trucks:	62.4	50.5	41.4	42.7	52.8	52.9
Vehicle Noise:	65.0	57.4	53.9	49.6	58.1	58.5

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	76
65 dBA	24
70 dBA	8
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

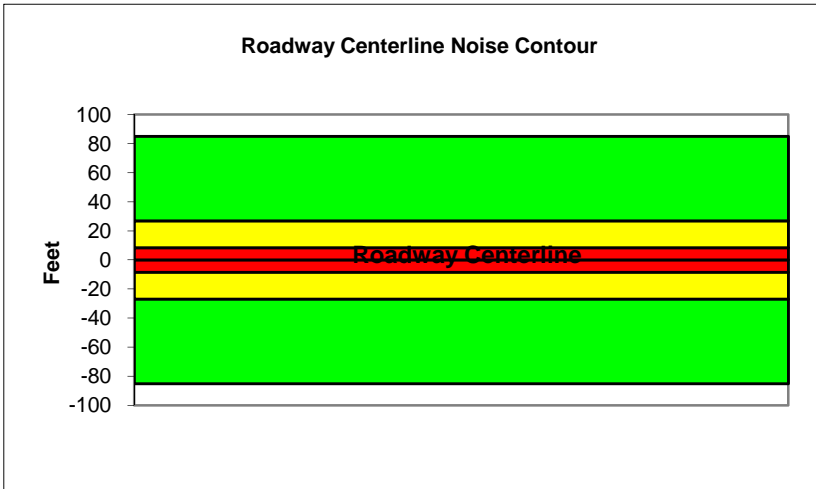
Project Name: DWP Specific Plan Amendment Project      Scenario: Future  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: 1st Street  
Road Segment: North of Marina Drive

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	3636				
Receiver Barrier Dist:	0		Peak Hour Traffic:	363.6				
Centerline Dist. To Observer:	100		Vehicle Speed:	40				
Barrier Near Lane CL Dist:	0		Centerline Separation:	40				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	47.0	55.8	54.0	47.9	56.6	57.2
Medium Trucks:	56.0	47.9	41.5	40.0	48.4	48.7
Heavy Trucks:	60.8	48.9	39.8	41.1	50.8	50.9
Vehicle Noise:	63.2	57.4	54.5	49.5	58.1	58.6

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	85
65 dBA	27
70 dBA	8
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

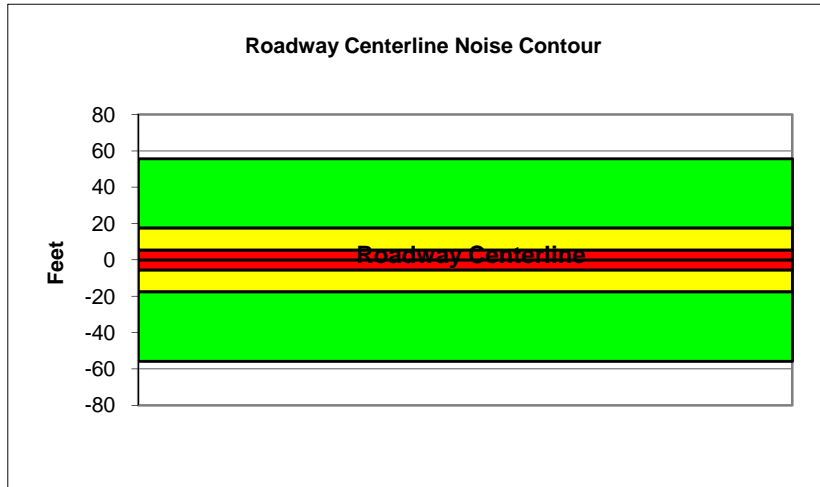
Project Name:	DWP Specific Plan Amendment Project	Scenario:	Future
Analyst:	Kelly Chiene	Job #:	10-107353
Roadway:	1st Street		
Road Segment:	South of Marina Drive		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	4511			
Receiver Barrier Dist:	0	Peak Hour Traffic:	451.1			
Centerline Dist. To Observer:	100	Vehicle Speed:	30			
Barrier Near Lane CL Dist:	0	Centerline Separation:	16.5			
Barrier Far lane CL Dist:	0	<b>NOISE INPUTS</b>				
Pad Elevation:	0.5	Site conditions <b>HARD SITE</b>				
Road Elevation:	0	<b>FLEET MIX</b>				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: <b>90</b>	Lft View: <b>-90</b>	Med. Truck	0.848	0.049	0.103	0.0184
<b>NOISE SOURCE ELEVATIONS (Feet)</b>		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	44.8	53.5	51.8	45.7	54.3	54.9
Medium Trucks:	55.4	47.3	40.9	39.3	47.8	48.1
Heavy Trucks:	61.0	49.1	40.0	41.2	51.4	51.5
<b>Vehicle Noise:</b>	<b>63.5</b>	<b>56.0</b>	<b>52.5</b>	<b>48.2</b>	<b>56.7</b>	<b>57.1</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	56
65 dBA	18
70 dBA	6
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

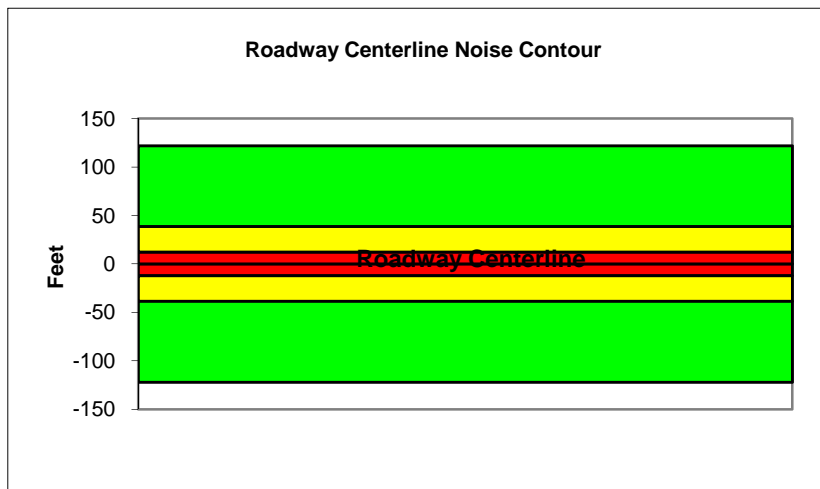
Project Name: DWP Specific Plan Amendment Project      Scenario: Future  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: Marina Drive  
Road Segment: West of 1st Street

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	7081				
Receiver Barrier Dist:	0		Peak Hour Traffic:	708.1				
Centerline Dist. To Observer:	100		Vehicle Speed:	35				
Barrier Near Lane CL Dist:	0		Centerline Separation:	31				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions HARD SITE					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	48.4	57.2	55.4	49.3	58.0	58.6
Medium Trucks:	58.1	50.0	43.7	42.1	50.6	50.8
Heavy Trucks:	63.3	51.4	42.3	43.6	53.5	53.6
<b>Vehicle Noise:</b>	<b>65.8</b>	<b>59.1</b>	<b>56.0</b>	<b>51.3</b>	<b>59.8</b>	<b>60.3</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	122
65 dBA	39
70 dBA	12
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

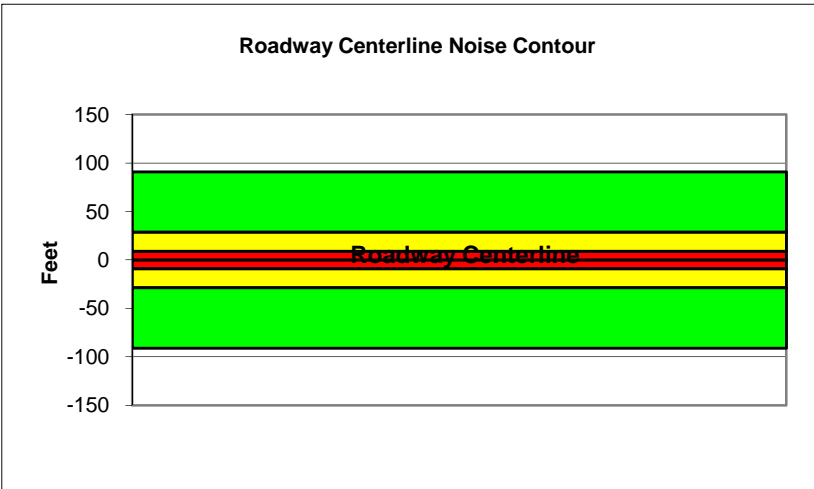
Project Name: DWP Specific Plan Amendment Project      Scenario: Future  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: Marina Drive  
Road Segment: East of 1st Street

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	5270				
Receiver Barrier Dist:	0		Peak Hour Traffic:	527				
Centerline Dist. To Observer:	100		Vehicle Speed:	35				
Barrier Near Lane CL Dist:	0		Centerline Separation:	11.5				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	47.5	56.2	54.5	48.4	57.0	57.6
Medium Trucks:	57.2	49.1	42.7	41.2	49.6	49.9
Heavy Trucks:	62.4	50.5	41.4	42.6	52.5	52.7
Vehicle Noise:	64.8	58.2	55.0	50.3	58.9	59.4

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	91
65 dBA	29
70 dBA	9
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

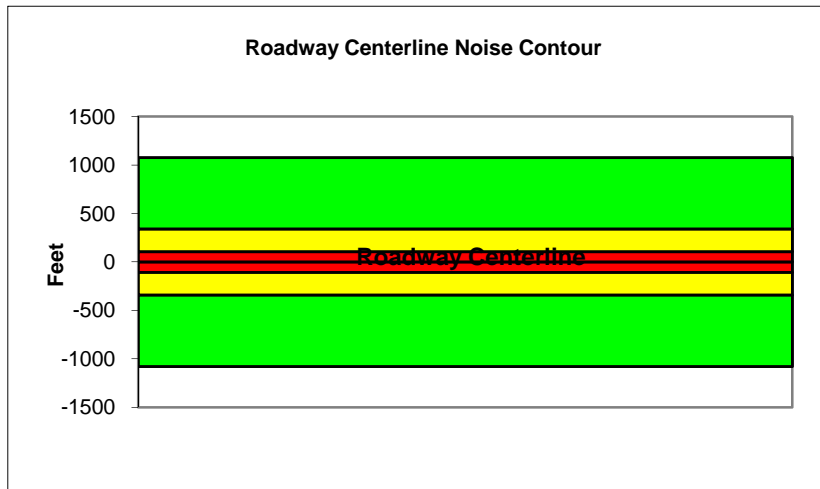
Project Name: DWP Specific Plan Amendment Project      Scenario: Future Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: North of 1st St.

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	46021			
Receiver Barrier Dist:	0	Peak Hour Traffic:	4602.1			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	40			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	58.1	66.8	65.0	59.0	67.6	68.2
Medium Trucks:	67.0	58.9	52.6	51.0	59.5	59.7
Heavy Trucks:	71.9	59.9	50.9	52.1	61.8	61.9
<b>Vehicle Noise:</b>	<b>74.2</b>	<b>68.4</b>	<b>65.5</b>	<b>60.5</b>	<b>69.1</b>	<b>69.6</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	1079
65 dBA	341
70 dBA	108
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

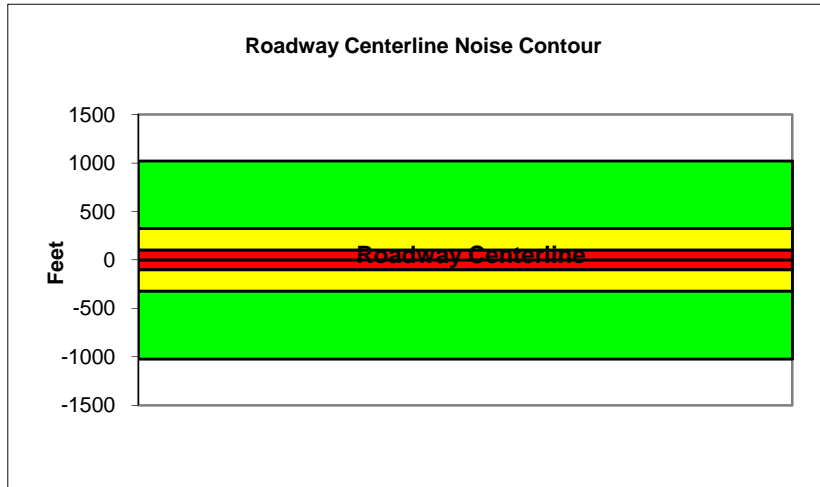
Project Name: DWP Specific Plan Amendment Project      Scenario: Future Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: South of 1st St.

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	43581			
Receiver Barrier Dist:	0	Peak Hour Traffic:	4358.1			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	43			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	57.8	66.6	64.8	58.7	67.3	67.9
Medium Trucks:	66.7	58.7	52.3	50.7	59.2	59.4
Heavy Trucks:	71.6	59.6	50.6	51.8	61.5	61.6
<b>Vehicle Noise:</b>	<b>73.9</b>	<b>68.1</b>	<b>65.2</b>	<b>60.3</b>	<b>68.8</b>	<b>69.3</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	1023
65 dBA	323
70 dBA	102
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

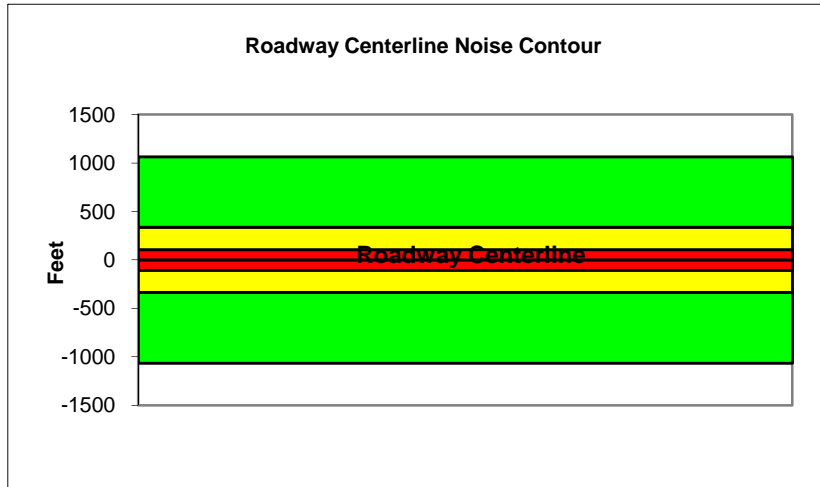
Project Name: DWP Specific Plan Amendment Project      Scenario: Future Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: Between Marina Drive and Main Street/Bolsa Avenue

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	45508				
Receiver Barrier Dist:	0		Peak Hour Traffic:	4550.8				
Centerline Dist. To Observer:	100		Vehicle Speed:	40				
Barrier Near Lane CL Dist:	0		Centerline Separation:	43				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions HARD SITE					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	58.0	66.7	65.0	58.9	67.5	68.1
Medium Trucks:	66.9	58.8	52.5	50.9	59.4	59.6
Heavy Trucks:	71.8	59.8	50.8	52.0	61.7	61.8
<b>Vehicle Noise:</b>	<b>74.1</b>	<b>68.3</b>	<b>65.4</b>	<b>60.4</b>	<b>69.0</b>	<b>69.5</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	1066
65 dBA	337
70 dBA	107
Mitigated	
60 dBA	
65 dBA	
70 dBA	





**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

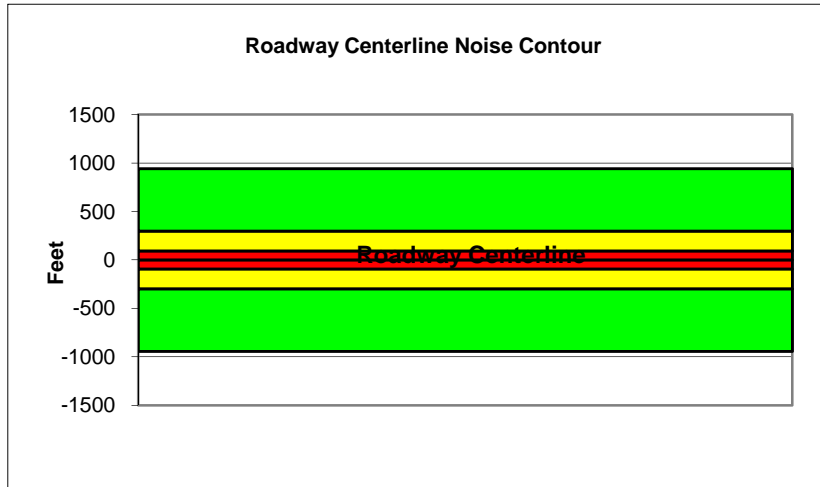
Project Name: DWP Specific Plan Amendment Project      Scenario: Future Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: PCH  
Road Segment: South of Main Street/Bolsa Avenue

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	40177			
Receiver Barrier Dist:	0	Peak Hour Traffic:	4017.7			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	42			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	57.4	66.2	64.4	58.3	67.0	67.6
Medium Trucks:	66.4	58.3	51.9	50.4	58.9	59.1
Heavy Trucks:	71.2	59.3	50.2	51.5	61.2	61.3
<b>Vehicle Noise:</b>	<b>73.6</b>	<b>67.8</b>	<b>64.9</b>	<b>59.9</b>	<b>68.5</b>	<b>69.0</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	942
65 dBA	298
70 dBA	94
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

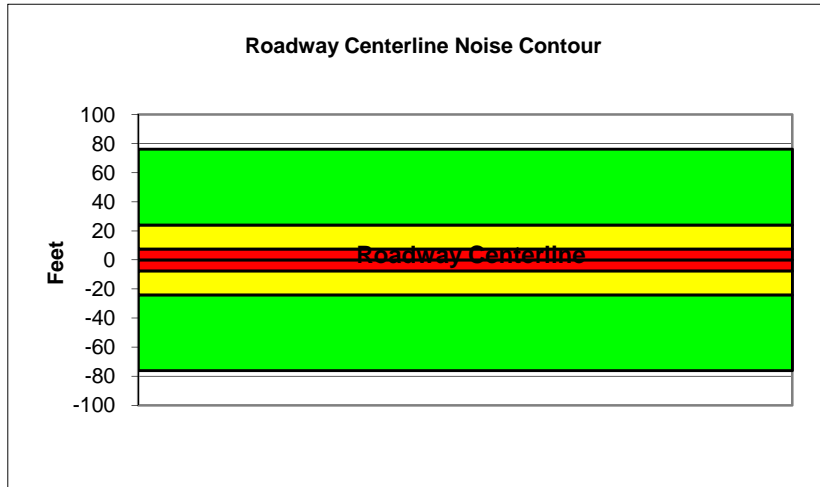
Project Name: DWP Specific Plan Amendment Project      Scenario: Future Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: Bolsa Avenue  
Road Segment: East of PCH

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	6166			
Receiver Barrier Dist:	0	Peak Hour Traffic:	616.6			
Centerline Dist. To Observer:	100	Vehicle Speed:	30			
Barrier Near Lane CL Dist:	0	Centerline Separation:	12			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions <b>HARD SITE</b>				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	46.2	55.0	53.2	47.1	55.8	56.4
Medium Trucks:	56.8	48.7	42.4	40.8	49.3	49.5
Heavy Trucks:	62.5	50.5	41.5	42.7	52.8	52.9
Vehicle Noise:	65.0	57.5	53.9	49.6	58.2	58.6

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	76
65 dBA	24
70 dBA	8
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

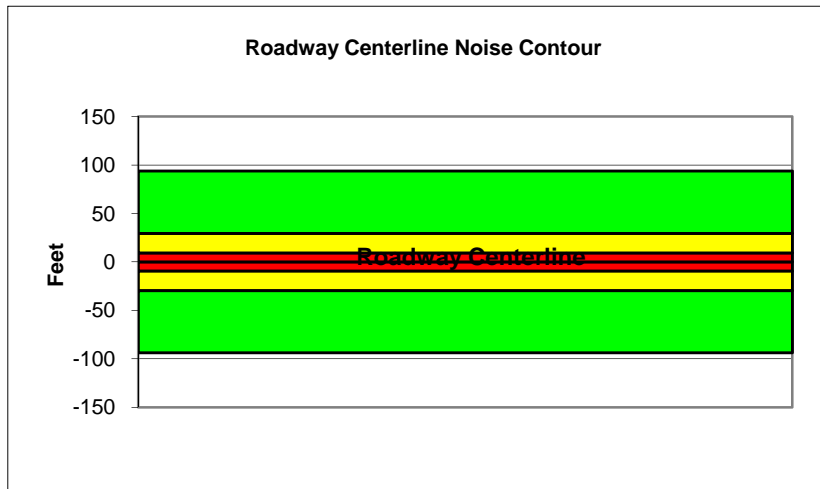
Project Name: DWP Specific Plan Amendment Project      Scenario: Future Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: 1st Street  
Road Segment: North of Marina Drive

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	4001				
Receiver Barrier Dist:	0		Peak Hour Traffic:	400.1				
Centerline Dist. To Observer:	100		Vehicle Speed:	40				
Barrier Near Lane CL Dist:	0		Centerline Separation:	40				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions HARD SITE					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	47.4	56.2	54.4	48.4	57.0	57.6
Medium Trucks:	56.4	48.3	41.9	40.4	48.9	49.1
Heavy Trucks:	61.2	49.3	40.3	41.5	51.2	51.3
Vehicle Noise:	63.6	57.8	54.9	49.9	58.5	59.0

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	94
65 dBA	30
70 dBA	9
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

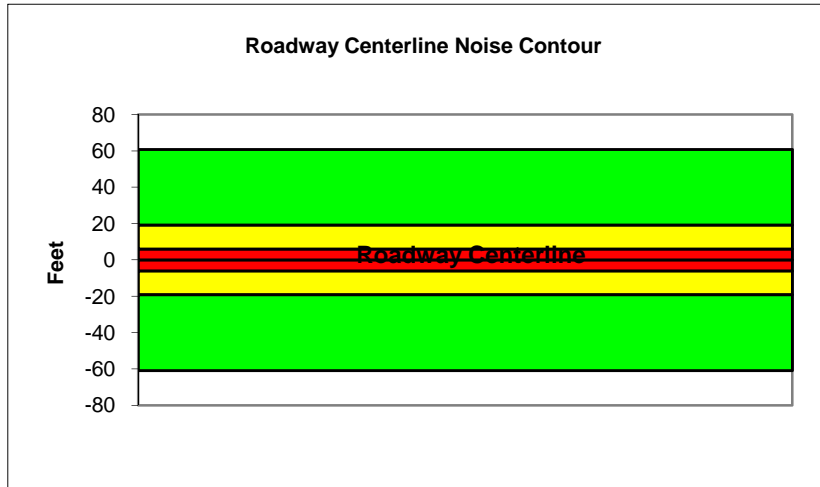
Project Name: DWP Specific Plan Amendment Project      Scenario: Future Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: 1st Street  
Road Segment: South of Marina Drive

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	4927				
Receiver Barrier Dist:	0		Peak Hour Traffic:	492.7				
Centerline Dist. To Observer:	100		Vehicle Speed:	30				
Barrier Near Lane CL Dist:	0		Centerline Separation:	16.5				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	45.2	53.9	52.1	46.1	54.7	55.3
Medium Trucks:	55.8	47.7	41.3	39.7	48.2	48.5
Heavy Trucks:	61.4	49.5	40.4	41.6	51.8	51.9
Vehicle Noise:	63.9	56.4	52.9	48.5	57.1	57.5

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	61
65 dBA	19
70 dBA	6
Mitigated	
60 dBA	
65 dBA	
70 dBA	



# Federal Highway Administration RD-77-108

## Traffic Noise Prediction Model (CALVENO)

Project Name: DWP Specific Plan Amendment Project Scenario: Future Plus Project  
Analyst: Kelly Chiene Job #: 10-107353  
Roadway: Marina Drive  
Road Segment: West of 1st Street

PROJECT DATA			SITE DATA					
Centerline Dist to Barrier	0		Road Grade:	0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:	7271				
Receiver Barrier Dist:	0		Peak Hour Traffic:	727.1				
Centerline Dist. To Observer:	100		Vehicle Speed:	35				
Barrier Near Lane CL Dist:	0		Centerline Separation:	31				
Barrier Far lane CL Dist:	0		NOISE INPUTS					
Pad Elevation:	0.5		Site conditions <b>HARD SITE</b>					
Road Elevation:	0		FLEET MIX					
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily	
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074	
Autos:	0							
Medium Trucks:	2.3							
Heavy Trucks:	8							

### UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)

Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	48.5	57.3	55.5	49.4	58.1	58.7
Medium Trucks:	58.2	50.2	43.8	42.2	50.7	50.9
Heavy Trucks:	63.5	51.5	42.5	43.7	53.6	53.7
Vehicle Noise:	65.9	59.2	56.1	51.4	59.9	60.4

### MITIGATED NOISE LEVELS (With topographic or barrier attenuation)

Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

### CENTERLINE NOISE CONTOUR

Unmitigated	
60 dBA	125
65 dBA	40
70 dBA	13
Mitigated	
60 dBA	
65 dBA	
70 dBA	

Roadway Centerline Noise Contour



**Federal Highway Administration RD-77-108  
Traffic Noise Prediction Model (CALVENO)**

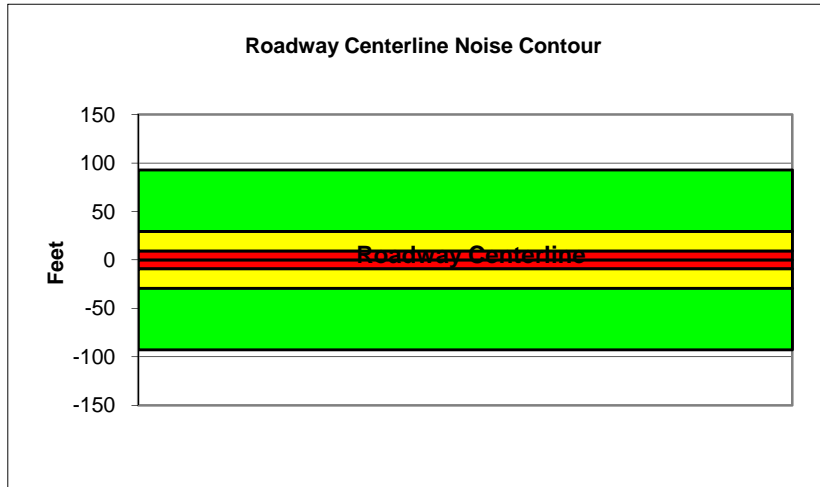
Project Name: DWP Specific Plan Amendment Project      Scenario: Future Plus Project  
Analyst: Kelly Chiene      Job #: 10-107353  
Roadway: Marina Drive  
Road Segment: East of 1st Street

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	5382			
Receiver Barrier Dist:	0	Peak Hour Traffic:	538.2			
Centerline Dist. To Observer:	100	Vehicle Speed:	35			
Barrier Near Lane CL Dist:	0	Centerline Separation:	11.5			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	47.6	56.3	54.5	48.5	57.1	57.7
Medium Trucks:	57.3	49.2	42.8	41.3	49.7	50.0
Heavy Trucks:	62.5	50.6	41.5	42.7	52.6	52.8
<b>Vehicle Noise:</b>	<b>64.9</b>	<b>58.3</b>	<b>55.1</b>	<b>50.4</b>	<b>59.0</b>	<b>59.4</b>

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	93
65 dBA	29
70 dBA	9
Mitigated	
60 dBA	
65 dBA	
70 dBA	



# Roadway Construction Noise Model (RCNM),Version 1.0

Report date: 9/14/2011

Case Description Demolition

## ---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
North	Residential	1	1	1

Description	Impact	Device	Equipment			
			Spec	Actual	Receptor	Estimated
			Lmax	Lmax	Distance	Shielding
		Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Excavator	No	40		80.7	300	0
Excavator	No	40		80.7	300	0
Concrete Saw	No	20		89.6	300	0
Excavator	No	40		80.7	300	0
Dozer	No	40		81.7	300	0
Dozer	No	40		81.7	300	0

## Results

Equipment	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
			Day		Evening		Night		Day		Evening		Night	
	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	65.1	61.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	65.1	61.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Concrete Saw	74	67	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	65.1	61.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	66.1	62.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	66.1	62.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	74	70.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
East	Residential	1	1	1

Description	Impact Device	Usage(%)	Equipment		
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)
Excavator	No	40		80.7	155
Excavator	No	40		80.7	530
Concrete Saw	No	20		89.6	530
Excavator	No	40		80.7	530
Dozer	No	40		81.7	530
Dozer	No	40		81.7	530

Equipment	Results		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	Calculated (dBA)		Day		Evening		Night		Day		Evening		Night	
	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	70.9	66.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	60.2	56.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Concrete Saw	69.1	62.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	60.2	56.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	61.2	57.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	61.2	57.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	70.9	69.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.



# Roadway Construction Noise Model (RCNM),Version 1.0

Report date: 9/14/2011

Case Description: Grading

		---- Receptor #1 ----				
		Baselines (dBA)				
Description	Land Use	Daytime	Evening	Night		
North	Residential	1	1	1		
		Equipment				
		Impact	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Description	Device	Usage(%)				
Excavator	No	40		80.7	85	0
Excavator	No	40		80.7	85	0
Grader	No	40	85		85	0
Excavator	No	40		80.7	85	0
Dozer	No	40		81.7	85	0
Scraper	No	40		83.6	85	0
Scraper	No	40		83.6	85	0
Tractor	No	40	84		85	0
Tractor	No	40	84		85	0

		Results													
		Calculated (dBA)			Noise Limits (dBA)					Noise Limit Exceedance (dBA)					
				Day			Evening			Night			Day	Evening	Night
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator		76.1	72.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		76.1	72.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader		80.4	76.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator		76.1	72.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		77.1	73.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper		79	75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper		79	75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		79.4	75.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		79.4	75.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total		80.4	83.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

		---- Receptor #2 ----		
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
East	Residential	1	1	1

		Equipment				
		Spec	Actual	Receptor	Estimated	
		Lmax	Lmax	Distance	Shielding	
Description	Impact Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Excavator	No	40		80.7	60	0
Excavator	No	40		80.7	60	0
Grader	No	40	85		60	0
Excavator	No	40		80.7	60	0
Dozer	No	40		81.7	60	0
Scraper	No	40		83.6	60	0
Scraper	No	40		83.6	60	0
Tractor	No	40	84		60	0
Tractor	No	40	84		60	0

		Results														
		Calculated (dBA)			Noise Limits (dBA)					Noise Limit Exceedance (dBA)						
		Day			Evening			Night		Day			Evening		Night	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Excavator		79.1		75.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Excavator		79.1		75.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Grader		83.4		79.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Excavator		79.1		75.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Dozer		80.1		76.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Scraper		82		78	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Scraper		82		78	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Tractor		82.4		78.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Tractor		82.4		78.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total		83.4		86.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

\*Calculated Lmax is the Loudest value.

# Roadway Construction Noise Model (RCNM),Version 1.0

Report date: 9/14/2011

Case Description: Paving

## ---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
North	Residential	1	1	1

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	85	0
Paver	No	50		77.2	85	0
All Other Equipment > 5 ft	No	50	85		85	0
All Other Equipment > 5 ft	No	50	85		85	0
Roller	No	20		80	85	0
Roller	No	20		80	85	0

## Results

Equipment	Calculated (dBA)			Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
				Day		Evening		Night		Day		Evening		Night	
	*Lmax	Leq		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver	72.6	69.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	72.6	69.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 ft	80.4	77.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 ft	80.4	77.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	75.4	68.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	75.4	68.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	80.4	81.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
East	Residential	1	1	1

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	68	0
Paver	No	50		77.2	68	0
All Other Equipment > 5 ft	No	50	85		68	0
All Other Equipment > 5 ft	No	50	85		68	0
Roller	No	20		80	68	0
Roller	No	20		80	68	0

Equipment	Results			Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	Calculated (dBA)		Day			Evening		Night		Day		Evening		Night	
	*Lmax	Leq		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver	74.5	71.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	74.5	71.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 ft	82.3	79.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 ft	82.3	79.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	77.3	70.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	77.3	70.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	82.3	83.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

# Roadway Construction Noise Model (RCNM),Version 1.0

Report date: 9/14/2011

Case Descrip building

## ---- Receptor #1 ----

Description	Land Use	Baselines (dBA)				
		Daytime	Evening	Night		
North	Residential	1	1	1		
Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	85	0
All Other Equipment > 5 ft	No	50	85		85	0
All Other Equipment > 5 ft	No	50	85		85	0
Generator	No	50		80.6	85	0
Tractor	No	40	84		85	0
Welder / Torch	No	40		74	85	0
Welder / Torch	No	40		74	85	0
Welder / Torch	No	40		74	85	0

## Results

Equipment	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day	Evening		Night		Day	Evening		Night			
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	75.9		68	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 ft	80.4	77.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 ft	80.4	77.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	76	73	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	79.4	75.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	69.4	65.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	69.4	65.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	69.4	65.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	80.4	82.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
East	Residential	1	1	1

		Equipment				
		Impact	Spec	Actual	Receptor	Estimated
Description	Device	Usage(%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Crane	No	16		80.6	68	0
All Other Equipment > 5 ft	No	50	85		68	0
All Other Equipment > 5 ft	No	50	85		68	0
Generator	No	50		80.6	68	0
Tractor	No	40	84		68	0
Welder / Torch	No	40		74	68	0
Welder / Torch	No	40		74	60	0
Welder / Torch	No	40		74	60	0

		Results													
		Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
				Day		Evening		Night		Day		Evening		Night	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane		77.9	69.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 ft		82.3	79.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 ft		82.3	79.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator		78	74.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		81.3	77.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch		71.3	67.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch		72.4	68.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch		72.4	68.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total		82.3	84.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

## Roadway Construction Noise Model (RCNM), Version 1.0

Report date: 9/14/2011

### Case Descrip Coating

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
North	Residential	1	1	1

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Compressor (air)	No	40		77.7	85	0

## Results

		Calculated (dBA)			Noise Limits (dBA)					Noise Limit Exceedance (dBA)				
				Day		Evening		Night		Day		Evening		Night
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Compressor (air)		73.1	69.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total		73.1	69.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*Calculated Lmax is the Loudest value.														

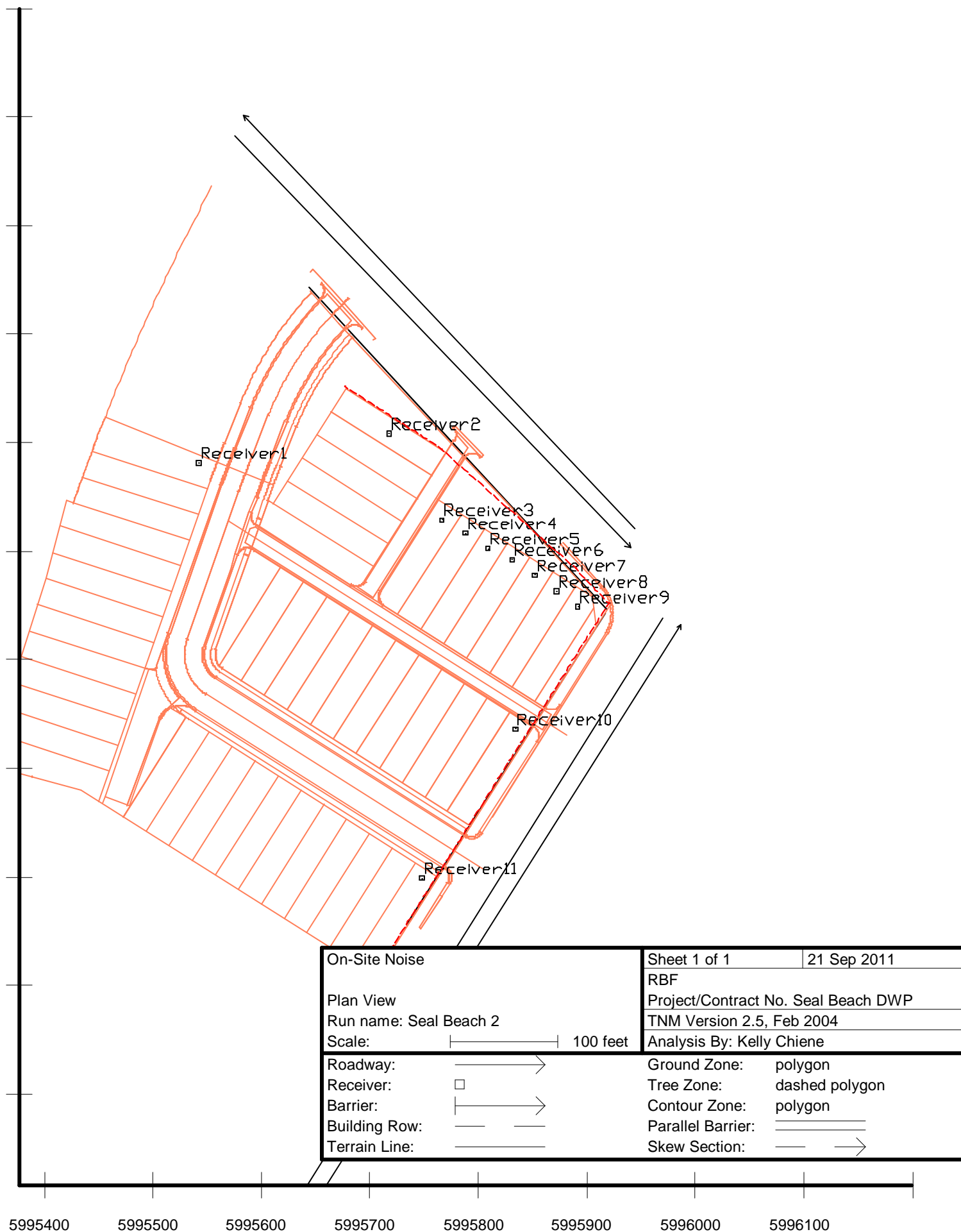
---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
East	Residential	1	1	1

Description	Impact Device	Usage(%)	Equipment			
			Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Compressor (air)	No	40		77.7	68	0

## Results

		Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
				Day		Evening		Night		Day		Evening		Night	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)		75	71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total		75	71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*Calculated Lmax is the Loudest value.															





**INPUT: RECEIVERS**
**Seal Beach DWP**

RBF							21 September 2011				
Kelly Chiene							TNM 2.5				
INPUT: RECEIVERS											
PROJECT/CONTRACT:	Seal Beach DWP										
RUN:	On-Site Noise										
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active
			X	Y	Z	above	Existing	Impact Criteria		NR	in
						Ground	L <sub>Aeq</sub> 1h	L <sub>Aeq</sub> 1h	Sub'l	Goal	Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Receiver1	1	1	5,995,441.5	2,220,082.8	13.80	5.00	0.00	66	10.0	8.0	Y
Receiver2	2	1	5,995,616.5	2,220,109.8	12.00	5.00	0.00	66	10.0	8.0	Y
Receiver3	3	1	5,995,665.5	2,220,030.2	12.50	5.00	0.00	66	10.0	8.0	Y
Receiver4	4	1	5,995,687.0	2,220,018.0	12.30	5.00	0.00	66	10.0	8.0	Y
Receiver5	5	1	5,995,708.0	2,220,004.0	12.10	5.00	0.00	66	10.0	8.0	Y
Receiver6	6	1	5,995,730.0	2,219,993.8	12.00	5.00	0.00	66	10.0	8.0	Y
Receiver7	7	1	5,995,751.0	2,219,979.2	11.60	5.00	0.00	66	10.0	8.0	Y
Receiver8	8	1	5,995,771.0	2,219,964.5	11.30	5.00	0.00	66	10.0	8.0	Y
Receiver9	9	1	5,995,790.5	2,219,950.2	11.00	5.00	0.00	66	10.0	8.0	Y
Receiver10	10	1	5,995,733.0	2,219,837.5	13.40	5.00	0.00	66	10.0	8.0	Y
Receiver11	11	1	5,995,647.0	2,219,700.2	14.80	5.00	0.00	66	10.0	8.0	Y

**INPUT: ROADWAYS**
**Seal Beach DWP**

RBF						21 September 2011					
Kelly Chiene						TNM 2.5					
INPUT: ROADWAYS											
PROJECT/CONTRACT:	Seal Beach DWP						Average pavement type shall be used unless				
RUN:	On-Site Noise						a State highway agency substantiates the use				
							of a different type with the approval of FHWA				
Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control	Speed	Percent	Pvmt	On
							Device	Constraint	Vehicles	Type	Struct?
									Affected		
	ft			ft	ft	ft		mph	%		
1st St EB	18.0	point1	1	5,995,417.0	2,219,191.0	14.60				Average	
		point2	2	5,995,886.0	2,219,933.5	9.00					
1st St WB	18.0	point3	3	5,995,869.0	2,219,940.2	9.00				Average	
		point4	4	5,995,404.0	2,219,197.5	14.60					
Marina SB	18.0	point5	5	5,995,474.0	2,220,383.8	10.00				Average	
		point6	6	5,995,839.0	2,220,004.5	9.00					
Marina NB	18.0	point7	7	5,995,843.5	2,220,022.0	9.00				Average	
		point8	8	5,995,482.5	2,220,403.2	10.00					

**INPUT: TRAFFIC FOR LAeq1h Volumes**
**Seal Beach DWP**

RBF													
Kelly Chiene													
INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	Seal Beach DWP												
RUN:	On-Site Noise												
Roadway	Points												
Name	Name	No.	Segment										
			Autos		MTrucks		HTrucks		Buses		Motorcycles		
			V	S	V	S	V	S	V	S	V	S	
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	
1st St EB	point1	1	237	30	5	30	2	30	0	0	0	0	
	point2	2											
1st St WB	point3	3	237	30	5	30	2	30	0	0	0	0	
	point4	4											
Marina SB	point5	5	350	35	7	35	4	35	0	0	0	0	
	point6	6											
Marina NB	point7	7	350	35	7	35	4	35	0	0	0	0	
	point8	8											

**RESULTS: SOUND LEVELS**
**Seal Beach DWP**

RBF													
Kelly Chiene													
<b>RESULTS: SOUND LEVELS</b>													
<b>PROJECT/CONTRACT:</b>													
<b>RUN:</b>													
<b>BARRIER DESIGN:</b>													
<b>ATMOSPHERICS:</b>													
<b>Receiver</b>													
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Existing LAeq1h</b>	<b>No Barrier LAeq1h</b>		<b>Increase over existing</b>		<b>Type</b>	<b>With Barrier Calculated LAeq1h</b>	<b>Noise Reduction Calculated</b>	<b>Goal</b>	<b>Calculated minus Goal</b>	
				<b>Calculated</b>	<b>Crit'n</b>	<b>Calculated</b>	<b>Crit'n</b>	<b>Impact</b>					
							<b>Sub'l Inc</b>						
			<b>dBA</b>	<b>dBA</b>	<b>dBA</b>	<b>dB</b>	<b>dB</b>		<b>dBA</b>	<b>dB</b>	<b>dB</b>	<b>dB</b>	
Receiver1	1	1	0.0	54.4	66	54.4	10	----	54.4	0.0	8	-8.0	
Receiver2	2	1	0.0	58.9	66	58.9	10	----	58.9	0.0	8	-8.0	
Receiver3	3	1	0.0	58.0	66	58.0	10	----	58.0	0.0	8	-8.0	
Receiver4	4	1	0.0	58.5	66	58.5	10	----	58.5	0.0	8	-8.0	
Receiver5	5	1	0.0	58.7	66	58.7	10	----	58.7	0.0	8	-8.0	
Receiver6	6	1	0.0	59.0	66	59.0	10	----	59.0	0.0	8	-8.0	
Receiver7	7	1	0.0	59.1	66	59.1	10	----	59.1	0.0	8	-8.0	
Receiver8	8	1	0.0	59.1	66	59.1	10	----	59.1	0.0	8	-8.0	
Receiver9	9	1	0.0	59.2	66	59.2	10	----	59.2	0.0	8	-8.0	
Receiver10	10	1	0.0	58.2	66	58.2	10	----	58.2	0.0	8	-8.0	
Receiver11	11	1	0.0	57.8	66	57.8	10	----	57.8	0.0	8	-8.0	
<b>Dwelling Units</b>		<b># DUs</b>	<b>Noise Reduction</b>										
			<b>Min</b>	<b>Avg</b>	<b>Max</b>								
			<b>dB</b>	<b>dB</b>	<b>dB</b>								
All Selected		11	0.0	0.0	0.0								
All Impacted		0	0.0	0.0	0.0								
All that meet NR Goal		0	0.0	0.0	0.0								